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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6523	16382	26560	2.79	5.8E-02	M99150.1	NT	Human polymorphic microsatellite DNA
6523	16382	26561	2.79	5.8E-02	M99150.1	NT	Human polymorphic microsatellite DNA
9227	18948		2.34	5.8E-02	AF220177.1	NT	Drosophila melanogaster male fruitless type-A (fru) mRNA, complete cds
9518	19739		4.56	5.8E-02	AA604269.1	EST_HUMAN	no75e11.s1 NCI_CGAP_AA1 Homo sapiens cDNA clone IMAGE:1112684 3'
3018	12946	22738	1.34	5.7E-02	A081644.1	EST_HUMAN	ou63b05.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632465 3' similar to WP.C37A2.2
3033	12961	22754	1.34	5.7E-02	AF119117.1	NT	Homo sapiens dopamine transporter (SLC6A3) gene, complete cds
3731	13643	23428	1.8	5.7E-02	AW966791.1	EST_HUMAN	EST378865 IMAGE resequences, MAGI Homo sapiens cDNA
6740	16619	26808	1.42	5.7E-02	AJ296090.1	NT	Rattus norvegicus mRNA for potassium channel, alpha subunit (kv9.2 gene)
8524	18396	28661	3.86	5.7E-02	A1752685.1	EST_HUMAN	cn18b09.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn18b09 random
8524	18396	28662	3.86	5.7E-02	A1752685.1	EST_HUMAN	cn18b09.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn18b09 random
9437	19558		5.55	5.7E-02	D50320.1	NT	Pig DNA for SPAL-2, complete cds
9662	19630		2.47	5.7E-02	AF217490.1	NT	Homo sapiens fragile 16D oxidoreductase (FOR) gene, exons 8, 9, and partial cds
9796	19727		3.82	5.7E-02	AF261280.1	NT	Pan troglodytes apolipoprotein-E gene, complete cds
1510	11415	21274	0.86	5.6E-02	AF094455.1	NT	Hydrocotyle rotundifolia ribosomal protein L16 (rpl16) gene, intron; chloroplast gene for chloroplast product
4540	14433	24215	1.26	5.6E-02	AB013100.1	NT	Lycopodium obscurum LE-ACS6 mRNA for 1-aminocyclopropane-1-carboxylate synthase, complete cds
4598	14486	24272	1.14	5.6E-02	AA280589.1	EST_HUMAN	zs45c01.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:700416 3'
6008	15913	26040	4.74	5.6E-02	AW172708.1	EST_HUMAN	xp02c10.x1 NCI_CGAP_U2 Homo sapiens cDNA clone IMAGE:2656050 3' similar to TR:O94979 O94979 KIAA0905 PROTEIN ;
6241	16107	26258	2.88	5.6E-02	BE008001.1	EST_HUMAN	QV0-BN0147-290400-214-g07 BN0147 Homo sapiens cDNA
7110	16987	27178	2.29	5.6E-02	BE542663.1	EST_HUMAN	601067158F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453279 5'
7110	16987	27179	2.29	5.6E-02	BE542663.1	EST_HUMAN	601067158F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453279 5'
7647	17497	27719	1.15	5.6E-02	AA482884.1	EST_HUMAN	nf49d07.s1 NCI_CGAP_A11 Homo sapiens cDNA clone IMAGE:923245 similar to TR:G769859 G769859 LAMINA ASSOCIATED POLYPEPTIDE 1C ;
8850	18662		2.18	5.6E-02	AF260225.1	NT	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced
2618	12486	22375	8.16	5.5E-02	X97869.1	NT	H. sapiens gene encoding La autoantigen
3179	13104	22909	3.6	5.5E-02	6755501	NT	Mus musculus SH3 domain protein 1B (Sh3d1B), mRNA
4777	14661	24448	0.81	5.5E-02	AF161266.1	NT	Murray Valley encephalitis virus strain MVE-1-51, complete genome
5472	15392	25456	3.47	5.5E-02	Q01174	SWISSPROT	TROPOMYOSIN ALPHA CHAIN, NON MUSCLE
5671	15392	25456	4.31	5.5E-02	Q01174	SWISSPROT	TROPOMYOSIN ALPHA CHAIN, NON MUSCLE

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6365	16228	26388	1.58	5.5E-02	6755902	NT	Mus musculus tuftelin 1 (Tuft1), mRNA
7566	17417	27632	1.3	5.5E-02	10947034	NT	Homo sapiens eIF4E-transporter (4E-T), mRNA
7566	17417	27633	1.3	5.5E-02	10947034	NT	Homo sapiens eIF4E-transporter (4E-T), mRNA
7619	17470	27689	1.48	5.5E-02	U99492.1	NT	Mus musculus second IL11 receptor alpha chain (IL11Ra2) gene, exons 1 and 2
8382	18259	28508	11.56	5.5E-02	U09771.1	NT	Citrobacter freundii DSM 30040 cyclopropane fatty acid synthase (cfa) gene, partial cds, dihydroxyacetone kinase (dhak), glycerol dehydrogenase (dhaD), transcriptional activator (dhaR), 1,3-propanediol dehydrogenase (dhaT), glycerol dehydratase (dhaB)>
2986	12914		0.95	5.4E-02	AJ277468.1	NT	Oryza sativa rbb3-1 gene for putative Bowman Birk trypsin inhibitor
3376	15078		6.34	5.4E-02	BE073468.1	EST_HUMAN	RC5-BT0559-140200-012-C03 BT0559 Homo sapiens cDNA
4908	14787	24563	0.92	5.4E-02	U53528.1	NT	Xenopus laevis homeobox protein (Vox-1) mRNA, complete cds
5108	14976	24751	1	5.4E-02	M96761.1	NT	Mus musculus p-glycoprotein (mdrla) gene, exons 1 and 2
8083	17974	28223	1.79	5.4E-02	U20790.1	NT	Neurospora crassa ubiquinol-cytochrome c oxidoreductase subunit VIII (QCR8) mRNA, complete cds
9323	19552		1.55	5.4E-02	U44894.1	NT	Rana catesbeiana heat shock protein 30 (HSP30) mRNA, complete cds
1037	10955	20797	1.62	5.3E-02	AW391248.1	EST_HUMAN	QV0-ST0213-021299-062-a09 ST0213 Homo sapiens cDNA
1037	10955	20798	1.62	5.3E-02	AW391248.1	EST_HUMAN	QV0-ST0213-021299-062-a09 ST0213 Homo sapiens cDNA
1489	11394	21255	18.21	5.3E-02	T94759.1	EST_HUMAN	ye37f12.r1 Stralagene lung (#937210) Homo sapiens cDNA clone IMAGE:119951 5' similar to gb:K01508
2447	12324	22222	3.14	5.3E-02	AJ276408.1	NT	HLA CLASS II HISTOCOMPATIBILITY ANTIGEN, DP(1) ALPHA CHAIN (HUMAN);
2912	12839	22638	3.91	5.3E-02	M58417.1	NT	Pseudomonas putida ttgS gene
2912	12839	22639	3.91	5.3E-02	M58417.1	NT	Drosophila melanogaster laminin B2 gene, complete cds
3113	13038	22834	4.59	5.3E-02	AJ276408.1	NT	Drosophila melanogaster laminin B2 gene, complete cds
4506	14399	24185	1.22	5.3E-02	AJ011048.1	NT	Pseudomonas putida ttgS gene
5021	14894	24662	7.26	5.3E-02	M80463.1	NT	Arabidopsis thaliana ell5 gene, exons 1-11
5288	15180	24955	1.76	5.3E-02	AE000527.1	NT	Mus musculus caudal type homeobox-1 (Cdx-1) gene, complete cds
5288	15180	24956	1.76	5.3E-02	AE000527.1	NT	Helicobacter pylori 26695 section 5 of 134 of the complete genome
6115	16009	26145	3.87	5.3E-02	9695413	NT	Helicobacter pylori 26695 section 5 of 134 of the complete genome
6363	16216		1.94	5.3E-02	S78221.1	NT	Lymphocystis disease virus 1, complete genome
7276	17153	27349	1.78	5.3E-02	X03127.1	NT	nuclear protein TIF-1 isoform [mice, mRNA, 4053 nt]
2239	12123		439.66	5.2E-02	5031908	NT	Podospira anserina mitochondrial epsilon-sen DNA
3076	13003	22793	2.34	5.2E-02	AJ277661.1	NT	Homo sapiens nephrin A, alpha (PABA peptide hydrolase) (MEP1A) mRNA
3076	13003	22794	2.34	5.2E-02	AJ277661.1	NT	Homo sapiens partial LMO1 gene for LIM domain only 1 protein, exon 1
4181	14081	23854	3.35	5.2E-02	U07132.1	NT	Homo sapiens partial LMO1 gene for LIM domain only 1 protein, exon 1
4633	14521	24311	1.04	5.2E-02	L33246.1	NT	Human steroid hormone receptor Nrf-1 mRNA, complete cds
						NT	Drosophila melanogaster filament protein homolog (sepi) gene, complete cds

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5714	15822		1.73	5.2E-02	AI830965.1	EST_HUMAN	wj80e04.x1 NCL_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2409150 3' similar to contains MER15.b1
6768	16647		2.23	5.2E-02	AL163204.2	NT	MER15 repetitive element ;
7610	17461	27677	2.03	5.2E-02	D10927.1	NT	Homo sapiens chromosome 21 segment HS21C004
7610	17461	27678	2.03	5.2E-02	D10927.1	NT	Turnip mosaic virus genomic RNA for Capsid protein, complete cds
9561	19157		1.63	5.2E-02	Q03030	SWISSPROT	Turnip mosaic virus genomic RNA for Capsid protein, complete cds
2313	12194		1.02	5.1E-02	AL134071.1	EST_HUMAN	OXALOACETATE DECARBOXYLASE ALPHA CHAIN
4979	14854	24620	1.12	5.1E-02	BE957423.2	EST_HUMAN	DKFZp647D073_r1 547 (synonym: hfr1) Homo sapiens cDNA clone DKFZp647D073 5'
6098	15108	24871	1.65	5.1E-02	BF378625.1	EST_HUMAN	601653565R2 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838361 3'
6859	16738	26930	1.43	5.1E-02	AJ131966.1	NT	QV0-UM0051-250800-350-b08 UM0051 Homo sapiens cDNA
7645	17495	27716	6.22	5.1E-02	AF012898.1	NT	Spodoptera littoralis mRNA for 3-dehydrodysone 3beta-reductase
7849	17609	27944	2.36	5.1E-02	P40803	SWISSPROT	Candida albicans protein phosphatase Ssd1 homolog (SSD1) gene, complete cds
8204	18088	28339	2.42	5.1E-02	AF083930.1	NT	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG (PROTEIN CEX)
8204	18088	28340	2.42	5.1E-02	AF083930.1	NT	Homo sapiens ES18 mRNA, partial cds
9569	19159		1.81	5.1E-02	AF082487.1	NT	Homo sapiens ES18 mRNA, partial cds
474	10418	20234	1.98	5.0E-02	AF098004.1	NT	Cucumis melo polygalacturonase precursor (NPG3) mRNA, complete cds
1186	11096	20942	7.11	5.0E-02	Z99104.1	NT	Mus musculus fatty acid amide hydrolase gene, exon 10
1947	11842	21726	4.27	5.0E-02	P02810	SWISSPROT	Bacillus subtilis complete genome (section 1 of 21): from 1 to 213080
2788	10894	20742	1.64	5.0E-02	U72742.1	NT	SALIVARY ACIDIC PROLINE-RICH PHOSPHOPROTEIN 1/2 PRECURSOR (PRP-1/PRP-3) (PRP-2/PRP-4) (PIF-F/PIF-S) (PROTEIN AIPROTEIN C) [CONTAINS: PEPTIDE P-C]
3295	13217		1.17	5.0E-02	7305610	NT	Oryctolagus cuniculus UDP-glucuronosyltransferase (UGT2B13) mRNA, complete cds
3629	13543	23330	5.53	5.0E-02	U12769.2	NT	Mus musculus Unc-51 like kinase 2 (C. elegans) (Ulk2), mRNA
4890	14770	24548	0.88	5.0E-02	AF188530.1	NT	Antheraea pernyi period clock protein homolog mRNA, complete cds
6450	16311	26477	10.61	5.0E-02	P35616	SWISSPROT	Homo sapiens ubiquitous tetrahydropteridine containing protein RoXa1 mRNA, partial cds
7858	17708	27954	1.32	5.0E-02	AF305238.1	NT	NEUROFILAMENT TRIPLET L PROTEIN (NEUROFILAMENT LIGHT POLYPEPTIDE) (NF-L)
8782	18597	28886	2.47	5.0E-02	U67600.1	NT	Mus musculus Fas-interacting serine/threonine kinase 3 (Fist3) mRNA, complete cds
9096	19593		2.81	5.0E-02	Q04047	SWISSPROT	Methanococcus jannaschii section 142 of 150 of the complete genome
218	10188		28.95	4.9E-02	M14230.1	NT	NO-ON-TRANSIENT A PROTEIN
365	10321	20143	2.57	4.9E-02	AF275948.1	NT	Chicken 28-kDa vitamin D-dependent calcium-binding protein (CaBP-28) mRNA, complete cds
365	10321	20144	2.57	4.9E-02	AF275948.1	NT	Homo sapiens ABCA1 (ABCA1) gene, complete cds
3251	13174	22972	1.87	4.9E-02	P54258	SWISSPROT	Homo sapiens ABCA1 (ABCA1) gene, complete cds
3522	13438		0.87	4.9E-02	AA186940.1	EST_HUMAN	ATROPHIN-1 (DENTATORUBRAL-PALLIDOLYSIAN ATROPHY PROTEIN)
3543	13459	23252	1.19	4.9E-02	AA400914.1	EST_HUMAN	zq48a12.s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632926 3' similar to contains Alu repetitive element; contains element MSR1 repetitive element ;
							z178a03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728428 3'

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3543	13459	23253	1.19	4.9E-02	AA400914.1	EST_HUMAN	z78a03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728428 3'
4733	14618	24404	1.89	4.9E-02	AW167821.1	EST_HUMAN	xg56g10.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2632386 3'
4733	14618	24405	1.89	4.9E-02	AW167821.1	EST_HUMAN	xg56g10.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2632386 3'
5299	15220	25023	1.94	4.9E-02	L00122.1	NT	Rat elastase II gene, exon 6
5299	15220	25024	1.94	4.9E-02	L00122.1	NT	Rat elastase II gene, exon 6
8705	18523	28805	3.78	4.9E-02	AF008303.1	NT	Homo sapiens prepro placental TGF-beta gene, complete cds
9490	19107		2.26	4.9E-02	8923880	NT	Homo sapiens CS box-containing WD protein (LOC55884), mRNA
9751	19276		3.67	4.9E-02	M19364.1	NT	Human gamma-B-crystallin (gamma 1-2) and gamma-C-crystallin (gamma 2-1) genes, complete cds
327	10287	20104	1.45	4.8E-02	D16471.1	NT	Human mRNA, Xq terminal portion
328	10287	20104	1.97	4.8E-02	D16471.1	NT	Human mRNA, Xq terminal portion
480	10424	20239	7.54	4.8E-02	AF003100.1	NT	Arabidopsis thaliana AP2 domain containing protein RAP2.7 mRNA, partial cds
2227	12112	22014	1.92	4.8E-02	W51983.1	EST_HUMAN	zc48b02.s1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:325611 3' similar to gb:M30938 LUPUS KU AUTOANTIGEN PROTEIN P86 (HUMAN);
3172	13097	22903	2.12	4.8E-02	X17144.1	NT	Tetrahymena rostrata histone H3ll and histone H4ll intergenic DNA
4572	14464		1.67	4.8E-02	Z54280.1	NT	S.scrofa gene for skeletal muscle ryanodine receptor
6076	14946	24722	1.28	4.8E-02	U91914.1	NT	Streptococcus constellatus D-alanine:D-alanine ligase gene, partial cds
6731	16811	26801	1.31	4.8E-02	AW388497.1	EST_HUMAN	MR2-ST0129-221099-012-b02 S T0129 Homo sapiens cDNA
4940	14818	24586	0.78	4.7E-02	6981261	NT	Rattus norvegicus Nestin (Nes), mRNA
6085	16030	26170	3.41	4.7E-02	W01153.1	EST_HUMAN	y297f09.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:291017 5' similar to contains Alu repetitive element;
6134	15981	26117	1.65	4.7E-02	M62752.1	NT	Rat stalin-related protein (s1) gene, complete CDS
6800	16679	26888	9.71	4.7E-02	X15543.1	NT	B.taurus mRNA for RF-36-DNA-binding protein
7179	17056	27245	1.18	4.7E-02	X89211.1	NT	H.sapiens DNA for endogenous retroviral like element
7189	17066		2.63	4.7E-02	AB026878.1	NT	Gallus gallus Wpki-8 gene, complete cds
7321	17197	27397	7.44	4.7E-02	X15543.1	NT	B.taurus mRNA for RF-36-DNA-binding protein
8136	18024	28270	1.76	4.7E-02	6754565	NT	Mus musculus ligand of numb-protein X (Lnx), mRNA
9305	19740		2.35	4.7E-02	AV648521.1	EST_HUMAN	AV648521 GLC Homo sapiens cDNA clone GLOBK02 3'
9552	19743		2.35	4.7E-02	P52951	SWISSPROT	HOMEBOX PROTEIN GBX-2 (GASTRULATION AND BRAIN-SPECIFIC HOMEBOX PROTEIN 2)
9881	19365		1.39	4.7E-02	AJ277682.1	NT	Homo sapiens partial TUB gene for tubby (mouse) homolog and LMO1 gene for LIM domain only 1 protein
722	10654	20484	2.74	4.6E-02	AE000445.1	NT	Escherichia coli K-12 MG1655 section 335 of 400 of the complete genome
1270	11177		1.06	4.6E-02	AI014255.1	EST_HUMAN	am50d02.s1 Johnson frontal cortex Homo sapiens cDNA clone IMAGE:1538979 3' similar to TR:P90533 Pg0533 LIMA ;contains element LTR1 repetitive element ;

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1336	11242	21100	2.74	4.6E-02	AV727059.1	EST_HUMAN	AV727059 HTC Homo sapiens cDNA clone HTCBW C01 5'
2438	12315	22212	2.51	4.6E-02	AW236023.1	EST_HUMAN	xn24f03.x1 NC1_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2694653 3' similar to SW:GRF1_HUMAN
2777	10235	20052	1.51	4.6E-02	BE153583.1	EST_HUMAN	Q12849 G-RICH SEQUENCE FACTOR-1;
2977	12904	22703	0.98	4.6E-02	BE153583.1	EST_HUMAN	PM0-HT0339-251199-003-g05 HT0339 Homo sapiens cDNA
3451	12904	22703	0.96	4.6E-02	BE153583.1	EST_HUMAN	PM0-HT0339-251199-003-g05 HT0339 Homo sapiens cDNA
4033	13936		1.22	4.6E-02	AF220365.1	NT	PM0-HT0339-251199-003-g05 HT0339 Homo sapiens cDNA
5777	15884	25792	3.64	4.6E-02	X61624.1	NT	Mus musculus nucleolar RNA helicase II/Gu (dx21) gene, complete cds
5777	15884	25793	3.64	4.6E-02	X61624.1	NT	C.reinhardtii atp2 (atpB) mRNA
						NT	C.reinhardtii atp2 (atpB) mRNA
6070	16053	26200	1.31	4.6E-02	AI149574.1	EST_HUMAN	qc60b06.x1 Soares_placenta_8to9weeks_2Nb1P8to9W Homo sapiens cDNA clone IMAGE:1713971 3'
7029	16906	27097	3.65	4.6E-02	BE154006.1	EST_HUMAN	similar to contains L1.13 L1 repetitive element;
8707	18524	28806	3.58	4.6E-02	AA913328.1	EST_HUMAN	PM0-HT0339-060400-009-G12 HT0339 Homo sapiens cDNA
9633	19738		1.34	4.6E-02	L11692.1	NT	ol27h09.s1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1524737 3'
9845	19343		2.68	4.6E-02	X57808.1	NT	Oryctolagus cuniculus macrophage scavenger receptor type II mRNA, complete cds
439	10383	20207	1.84	4.5E-02	P22448	SWISSPROT	Human germline immunoglobulin lambda light chain gene
1200	11110	20955	0.85	4.5E-02	AF005730.1	NT	RETINOIC ACID RECEPTOR BETA (RAR-BETA)
1200	11110	20956	0.85	4.5E-02	AF005730.1	NT	Marburg virus strain M/S.Africa/Johannesburg/1975/Ozolin VP35 gene, complete cds
1763	11662	21535	3.55	4.5E-02	P32182	SWISSPROT	Marburg virus strain M/S.Africa/Johannesburg/1975/Ozolin VP35 gene, complete cds
2063	11953	21850	2.04	4.5E-02	AE003994.1	NT	HEPATOCYTE NUCLEAR FACTOR 3-BETA (HNF-3B)
3662	13576	23364	3.83	4.5E-02	AL163278.2	NT	Xylella fastidiosa, section 110 of 229 of the complete genome
						NT	Homo sapiens chromosome 21 segment HS21C078
						NT	Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene
5778	15885	25794	1.54	4.5E-02	AJ400877.1	NT	Arabidopsis thaliana CCAAT-box binding factor HAP3 homolog gene, complete cds
6891	16770	26965	2.3	4.5E-02	AF036684.1	NT	EST28167 Cerebellum II Homo sapiens cDNA 5' and similar to similar to neuro-D4 protein
7718	17568	27793	4.43	4.5E-02	AA325216.1	EST_HUMAN	Homo sapiens ref finger protein-like 3 (RFPL3), mRNA
9301	19000	25331	1.74	4.5E-02	11418013	NT	EST28167 Cerebellum II Homo sapiens cDNA 5' and similar to similar to neuro-D4 protein
9391	19637	26009	3.41	4.5E-02	AA191037.1	EST_HUMAN	zq43f1.1.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632493 5'
213	10184		4.79	4.4E-02	BE972733.1	EST_HUMAN	607652154F1 NIH_MGC_82 Homo sapiens cDNA clone IMAGE:3935388 5'
1008	10926	20770	1.29	4.4E-02	L19295.1	NT	Drosophila melanogaster extracellular (EXD) mRNA, complete cds
2049	11940		6.15	4.4E-02	P31568	SWISSPROT	HYPOTHETICAL PROTEIN (ORF 2280)
2440	12317	22214	1.29	4.4E-02	AW875475.1	EST_HUMAN	QV2-P T0012-010300-070-g02 P T0012 Homo sapiens cDNA
3588	13502	23291	1.88	4.4E-02	AF159180.1	NT	Myxococcus xanthus serine/threonine kinase Pkn10 (pkn10) gene, complete cds
						NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
4527	14420	24203	1.08	4.4E-02	AF109907.1	NT	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4527	14420	24204	1.08	4.4E-02	AF10907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
4637	14525		3.12	4.4E-02	AJ222889.1	NT	Ovis aries COAAT-enhancer binding protein epsilon gene
7084	16961	27154	1.96	4.4E-02	AA736969.1	EST_HUMAN	ncw13h03.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1239221 3'
8423	18297	28552	4.11	4.4E-02	AF060669.1	NT	Hepatitis E virus strain HEV-US2 polyprotein (ORF1), (ORF3), and capsid protein (ORF2) genes, complete cds
8533	18405	28670	2.39	4.4E-02	AA496739.1	EST_HUMAN	ae33304.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897631 5'
9029	18820		1.88	4.4E-02	AB040926.1	NT	Homo sapiens mRNA for KIAA1493 protein, partial cds
9210	19753		1.44	4.4E-02	BF241245.1	EST_HUMAN	601878746F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107418 5'
764	10695	20632	5.74	4.3E-02	AF003249.1	NT	Morone saxatilis myosin heavy chain FM3A (FM3A) mRNA, complete cds
2521	12395	22286	1.23	4.3E-02	AV704878.1	EST_HUMAN	AV704878 ADB Homo sapiens cDNA clone ADBA0H08 5'
3383	13301	23101	7.04	4.3E-02	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3609	13523		1.07	4.3E-02	AF060568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
5141	15008	24779	0.92	4.3E-02	X51594.1	NT	Pea P4 organ specific gene
5914	15820	25944	4.93	4.3E-02	P30427	SWISSPROT	PLECTIN
5914	15820	25945	4.93	4.3E-02	P30427	SWISSPROT	PLECTIN
8242	18122	28372	2.48	4.3E-02	X17012.1	NT	Rat IGF1 gene for insulin-like growth factor II
805	10734	20577	2.05	4.2E-02	AU123327.1	EST_HUMAN	AU123327 NT2RM2 Homo sapiens cDNA clone NT2RM2000020 5'
848	10775		1.93	4.2E-02	AU123327.1	EST_HUMAN	AU123327 NT2RM2 Homo sapiens cDNA clone NT2RM2000020 5'
878	10804	20654	0.83	4.2E-02	AW003645.1	EST_HUMAN	wx34g01.x1 NCI_CGAP_Pit1 Homo sapiens cDNA clone IMAGE:2545584 3' similar to TR:Q63291 Q63291 L1 RETROPOSON, ORF2 MRNA ;contains L1.13 L1 L1 repetitive element;
1690	11592		1.21	4.2E-02	AL445066.1	NT	Thermoplasma acidophilum complete genome; segment 4/5
3117	13042	22838	0.9	4.2E-02	AI493472.1	EST_HUMAN	qy95f10.x1 NCI_CGAP_Erm25 Homo sapiens cDNA clone IMAGE:2019787 3' similar to gb:M35718 FIBROBLAST GROWTH FACTOR RECEPTOR BFR-2 PRECURSOR (HUMAN);
5172	13038		1.07	4.2E-02	D63484.1	NT	Human mRNA for KIAA0150 gene, partial cds
6444	16305	26470	4.45	4.2E-02	AF276752.1	NT	Legionella pneumophila catalase-peroxidase (katA) gene, complete cds
7114	16991	27183	3.88	4.2E-02	P05095	SWISSPROT	ALPHA-ACTININ 3, NON MUSCULAR (F-ACTIN CROSS LINKING PROTEIN)
7845	17895	27941	1.28	4.2E-02	Q16650	SWISSPROT	T-BRAIN-1 PROTEIN (T-BOX BRAIN PROTEIN 1) (TBR-1) (TES-56)
8627	18492	28764	2.33	4.2E-02	BE815822.1	EST_HUMAN	PM3-BN0174-250500-009-d10 BN0174 Homo sapiens cDNA
8627	18492	28765	2.33	4.2E-02	BE815822.1	EST_HUMAN	PM3-BN0174-250500-009-d10 BN0174 Homo sapiens cDNA
8795	18609	28900	1.73	4.2E-02	AF176458.1	NT	PRRS isolate PRRSV36 envelope glycoprotein gene, complete cds
9563	19681		2.69	4.2E-02	AI983494.1	EST_HUMAN	w49g10.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2510850 3'
2643	12510	22401	0.97	4.1E-02	AE002330.2	NT	Chlamydia muridarum, section 60 of 85 of the complete genome
3824	13736	23526	0.86	4.1E-02	BE297236.1	EST_HUMAN	601177907F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3533353 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3824	13736	23527	0.86	4.1E-02	BE297236.1	EST_HUMAN	601177907F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3533353 5'
4372	14268		7.37	4.1E-02	AW893484.1	EST_HUMAN	QV1-NN0012-180400-164-06 NN0012 Homo sapiens cDNA
6436	16297	28459	1.84	4.1E-02	7662347	NT	Homo sapiens KIAA0867 protein (KIAA0867), mRNA
6565	16423	26604	2.44	4.1E-02	AF026198.1	NT	Fugu rubripes neural cell adhesion molecule L1 homolog (L1-CAM) gene, complete cds; putative protein 1 (PUT1) gene, partial cds; mitosis-specific chromosome segregation protein SMC1 homolog (SMC1) gene, complete cds; and calcium channel alpha-1 subunit>
9873	19682	24994	12.83	4.1E-02	AJ271909.1	NT	Brassica napus glin gene for plastid glutamine synthetase, exons 1-12
3206	13130	22832	2.68	4.0E-02	AB040904.1	NT	Homo sapiens mRNA for KIAA1471 protein, partial cds
5304	15225	25029	4.92	4.0E-02	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
6528	16387	26567	5.69	4.0E-02	L23838.1	NT	Strongylocentrotus purpuratus homolog of human bone morphogenetic protein 1 (submp) mRNA, complete cds
7059	16936	27126	2.8	4.0E-02	P08640	SWISSPROT	GLUCOAMYLASE S1/S2 PRECURSOR (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE)
7572	17423	27638	2.42	4.0E-02	AJ000941.1	NT	Methanobacterium thermoautotrophicum strain Marburg, Thiol fumarate reductase subunit A
8983	18788		1.94	4.0E-02	AJ001018.1	NT	Kluyveromyces fragilis gene for C ₄ ATPase
9196	19506	25135	4.96	4.0E-02	AJ001056.1	NT	Ovis aries mRNA for acetyl-coA carboxylase
1104	11020	20863	2.77	3.9E-02	BF516149.1	EST_HUMAN	U1-H-BW1-ant-h-08-Q-U1.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084134 3'
1322	11229	21084	3.46	3.9E-02	P41047	SWISSPROT	FAS ANTIGEN LIGAND
1918	11813	21691	3.04	3.9E-02	AJ403386.1	NT	M.musculus DNA for desmin-binding fragment DesD7
2671	12536		2.29	3.9E-02	4506862	NT	Homo sapiens succinate dehydrogenase complex, subunit C, integral membrane protein, 15kD (SDHC) mRNA
5105	14973	24748	0.98	3.9E-02	8924019	NT	Homo sapiens hypothetical protein PRO1163 (PRO1163), mRNA
5105	14973	24749	0.98	3.9E-02	8924019	NT	Homo sapiens hypothetical protein PRO1163 (PRO1163), mRNA
6581	16461	26854	1.22	3.9E-02	BF239613.1	EST_HUMAN	601906848F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4134779 5'
9056	19644		5.45	3.9E-02	AB042553.1	NT	Felis catus G-CSF gene for granulocyte colony-stimulating factor, complete cds
9697	19248		1.57	3.9E-02	U66061.1	NT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV29S1P, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
9811	19568		7.38	3.9E-02	AL049866.2	NT	Mus musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zinc finger protein 275, Zinc finger protein 92, mrxq28orf
1909	11804	21683	0.94	3.8E-02	BE865137.1	EST_HUMAN	601510891F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912215 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6331	16194	26355	1.74	3.8E-02	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
7033	16910		1.39	3.8E-02	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
8045	17936	28185	2.45	3.8E-02	AF143952.2	NT	Homo sapiens PELOTA (PELOTA) gene, complete cds
976	10899	20746	4.59	3.7E-02	P19137	SWISSPROT	LAMININ ALPHA-1 CHAIN PRECURSOR (LAMININ A CHAIN)
1366	11272	21128	0.9	3.7E-02	L14561.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
2190	12077	21982	6.3	3.7E-02	A1984806.1	EST_HUMAN	wr85e08.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2494502 3'
2533	12407	22299	0.91	3.7E-02	AB018261.1	NT	Homo sapiens mRNA for KIAA0718 protein, partial cds
3012	12940	22733	0.8	3.7E-02	P79944	SWISSPROT	EOMESODERMIN
3013	12941	22734	3.45	3.7E-02	BF312963.1	EST_HUMAN	601896233F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125584 5'
3408	13325		1.1	3.7E-02	6680541	NT	Mus musculus potassium large conductance pH-sensitive channel, subfamily M, alpha member 3 (Kcnma3), mRNA
9095	18667	29119	3.4	3.7E-02	BF124974.1	EST_HUMAN	601762117F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4024973 5'
9755	19539	25063	1.62	3.7E-02	11418392	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1 (SLC22A1), mRNA
3604	13518	23306	0.85	3.6E-02	X73221.1	NT	H. vulgare Sst1 gene for sucrose synthase
3612	13526	23313	0.8	3.6E-02	AL096906.1	NT	Homo sapiens genomic region containing hypervariable minisatellites chromosome 10[10q26.3] of Homo sapiens
5135	15002	24773	0.84	3.6E-02	AL096810.1	NT	Homo sapiens genomic region containing hypervariable minisatellites chromosome 10[10q26.3] of Homo sapiens
6028	15932	26062	5	3.6E-02	AW945516.1	EST_HUMAN	CM2-EN0013-110500-192-b10 EN0013 Homo sapiens cDNA
6028	15932	26063	5	3.6E-02	AW945516.1	EST_HUMAN	CM2-EN0013-110500-192-b10 EN0013 Homo sapiens cDNA
6214	16080	26229	1.82	3.6E-02	AF025952.1	NT	Chromatium vinosum sulfur globule protein Cyt2 precursor (sgp2) gene, complete cds
6324	16187	26349	2.63	3.6E-02	AA714521.1	EST_HUMAN	nm20e05.s1 NCL CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241024 3' similar to gb.J00314_rna2 TUBULIN BETA-1 CHAIN (HUMAN);
7402	17269	27473	2.08	3.6E-02	U20608.1	NT	Dicotyledon discoidium unknown spore germination-specific protein-like protein, orf1, orf2 and orf3 genes, complete cds
7402	17269	27474	2.08	3.6E-02	U20608.1	NT	Dicotyledon discoidium unknown spore germination-specific protein-like protein, orf1, orf2 and orf3 genes, complete cds
877	10803	20653	1.15	3.5E-02	U09506.1	NT	Drosophila melanogaster tigrin mRNA, complete cds
992	10913	20758	1.53	3.5E-02	AF253417.1	NT	Homo sapiens microsomal epoxide hydrolase (EPHX1) gene, complete cds
1544	11449	21309	1.49	3.5E-02	BF678085.1	EST_HUMAN	602085136F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249377 5'
1544	11449	21310	1.49	3.5E-02	BF678085.1	EST_HUMAN	602085136F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249377 5'
4120	14020	23798	2.01	3.5E-02	AE001773.1	NT	Thermotoga maritima section 85 of 136 of the complete genome

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4220	14118	23895	1.43	3.5E-02	P53780	SWISSPROT	CYSTATHIONINE BETA-LYASE PRECURSOR (CBL) (BETA-CYSTATHIONASE) (CYSTEINE LYASE)
4536	14429		0.96	3.5E-02	AW958493.1	EST_HUMAN	EST370539 IMAGE rescues, MAGE Homo sapiens cDNA
5154	15021		0.84	3.5E-02	P47144	SWISSPROT	HYPOTHETICAL 80.7 KD PROTEIN IN SOD1-CPA2 INTERGENIC REGION
5773	15680	25787	1.88	3.5E-02	J01238.1	NT	Maize actin 1 gene (MAct1), complete cds
7012	16889	27082	2.35	3.5E-02	BE958970.1	EST_HUMAN	601644701R2 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3929737 3'
7755	17605	27829	1.72	3.5E-02	X76642.1	NT	L_lactis MG1363 grpE and dnaK genes
8785	18600	28889	1.76	3.5E-02	AW861641.1	EST_HUMAN	PM1-CT0326-291299-002-h03 CT0326 Homo sapiens cDNA
8785	18600	28890	1.76	3.5E-02	AW861641.1	EST_HUMAN	PM1-CT0326-291299-002-h03 CT0326 Homo sapiens cDNA
9749	19582		3.51	3.5E-02	BE276948.1	EST_HUMAN	601178765F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3543833 5'
564	10504	20310	1.78	3.4E-02	AK024424.1	NT	Homo sapiens mRNA for FLJ00013 protein, partial cds
564	10504	20311	1.78	3.4E-02	AK024424.1	NT	Homo sapiens mRNA for FLJ00013 protein, partial cds
565	10504	20310	3.31	3.4E-02	AK024424.1	NT	Homo sapiens mRNA for FLJ00013 protein, partial cds
565	10504	20311	3.31	3.4E-02	AK024424.1	NT	Homo sapiens mRNA for FLJ00013 protein, partial cds
1035	10953	20795	3.77	3.4E-02	AW274020.1	EST_HUMAN	x26607.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2814253 3' similar to SW:C211_HUMAN P53801 PUTATIVE SURFACE GLYCOPROTEIN C21ORF1 PRECURSOR ;
1188	11098		10.22	3.4E-02	11345459	NT	Homo sapiens hypothetical protein FLJ13220 (FLJ13220), mRNA
2343	12223	22120	2.06	3.4E-02	T57160.1	EST_HUMAN	yc20e06.r1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:81250 5' similar to contains MER29 repetitive element
3384	13302	23102	1.25	3.4E-02	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
3709	13622	23405	1.07	3.4E-02	BE839514.1	EST_HUMAN	RC3-FN0155-060700-011-d10 FN0155 Homo sapiens cDNA
3845	13756	23550	3.18	3.4E-02	AW794952.1	EST_HUMAN	RC6-UM0015-210200-021-A10 UM0015 Homo sapiens cDNA
4494	14388	24174	2.41	3.4E-02	X59799.1	NT	M.musculus S-antigen gene promoter region
4992	14867		3.43	3.4E-02	Q26457	SWISSPROT	LA PROTEIN HOMOLOG (LA RIBONUCLEOPROTEIN) (LA AUTOANTIGEN HOMOLOG)
5010	14884	24650	1.28	3.4E-02	AJ012469.1	NT	Caenorhabditis elegans mRNA for DYS-1 protein, partial
6095	15105	24868	4.19	3.4E-02	U24393.1	NT	Human lysyl oxidase-like protein gene, exon 3
6808	16687		4.78	3.4E-02	A1869629.1	EST_HUMAN	w199d04.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2433031 3'
							zq04f11.s1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628749 3' similar to TR:G1017425 G1017425
7169	17046		6.07	3.4E-02	AA194306.1	EST_HUMAN	IPISGKPLPKVTL SRDGVPLKATMRNFTEITAE NLTKESVTADAGRYEITAA NSSGTTKAFINIVLDRPG
368	10324		13.18	3.3E-02	AA398735.1	EST_HUMAN	PPT GPVWISDITEESVTLKWEPPKYDGGSQVTNYLLKRETSTAVWTEVSATVARTMMKVMKL ...;
1151	11064	20907	13.17	3.3E-02	AB035867.1	NT	z175e08.s1 Soares_leslis_NHT Homo sapiens cDNA clone IMAGE:728198 3'
1621	11525	21383	1.08	3.3E-02	AF110763.1	NT	Cricetus griseus CYP2A17 mRNA for cytochrome P450 2A17, complete cds Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1705	11606		1.28	3.3E-02	AE000700.1	NT	Aquifex aeolicus section 32 of 109 of the complete genome
2038	11929		2.77	3.3E-02	R09112.1	EST_HUMAN	yf25c09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127888 5'
4086	11525	21383	2.24	3.3E-02	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
4366	14262	24047	1.88	3.3E-02	6755862	NT	Mus musculus tumor rejection antigen gp96 (Tra1), mRNA
5875	15781	25901	18.26	3.3E-02	BF245995.1	EST_HUMAN	601853910F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073787 5'
5875	15781	25902	18.26	3.3E-02	BF245995.1	EST_HUMAN	601853910F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073787 5'
8464	18337	28601	3.39	3.3E-02	BF691107.1	EST_HUMAN	602247171F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332497 5'
9290	18991		1.78	3.3E-02	T96545.1	EST_HUMAN	ye49f11.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121101 5'
9441	19078		1.59	3.3E-02	M81890.1	NT	Human interleukin 11 (IL11) gene, complete mRNA
127	10101	19923	1.13	3.2E-02	AJ002005.1	NT	Oryctolagus cuniculus gene encoding ileal sodium-dependent bile acid transporter
1110	11025	20867	12.7	3.2E-02	AF096275.1	NT	Drosophila melanogaster heat shock protein 68 (hsp68) gene, hsp68d allele, complete cds
1110	11025	20868	12.7	3.2E-02	AF096275.1	NT	Drosophila melanogaster heat shock protein 68 (hsp68) gene, hsp68d allele, complete cds
1734	11635	21503	1.14	3.2E-02	AF128994.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 7-16 and complete cds
2072	11962		0.91	3.2E-02	P28955	SWISSPROT	LARGE TEGUMENT PROTEIN
2809	10101	19923	1.15	3.2E-02	AJ002005.1	NT	Oryctolagus cuniculus gene encoding ileal sodium-dependent bile acid transporter
3095	13022	22817	10.71	3.2E-02	BE867353.1	EST_HUMAN	601442431F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846727 5'
3653	13567	23354	1.05	3.2E-02	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4124	14024		12.36	3.2E-02	X94768.1	NT	H. sapiens RP3 gene (XLRP gene 3)
4658	14544	24333	2.88	3.2E-02	AF114182.1	NT	Saxifraga nidifica maturase (matK) gene, chloroplast gene encoding chloroplast protein, partial cds
5399	15318	25365	1.46	3.2E-02	X68709.1	NT	S.griseocarneum whiG-Stv gene
5399	15318	25366	1.46	3.2E-02	X68709.1	NT	S.griseocarneum whiG-Stv gene
5931	15836	25959	2.26	3.2E-02	M32437.1	NT	Rat/polyomavirus left junction in cell line W98.14
5932	15837		26.54	3.2E-02	T89367.1	EST_HUMAN	yc33h12.st Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:110087 3' similar to contains
5986	15891	26013	3.72	3.2E-02	AF173845.1	NT	Alu repetitive element; contains LTR1 repetitive element;
6830	16709	26902	3.48	3.2E-02	6880365	NT	Saguinus oedipus tissue kallikrein gene, complete cds
						NT	Mus musculus kinesin family member 3c (Kif3c), mRNA
7786	17636		3.82	3.2E-02	AA719795.1	EST_HUMAN	zg54b12.st Soares pineal gland N3HPG Homo sapiens cDNA clone IMAGE:397151 3' similar to
9952	19487		1.38	3.2E-02	AB021684.1	NT	gbL08441 CYTOCHROME C OXIDASE POLYPEPTIDE III (HUMAN);
1239	11146		2.05	3.1E-02	4503416	NT	Marchantia polymorpha genes for 26S rRNA, 18S rRNA, 5.8S rRNA and 26S rRNA
1283	11191	21043	1.26	3.1E-02	P18845	SWISSPROT	Homo sapiens dual specificity phosphatase 4 (DUSP4) mRNA
1850	11746	21621	1.35	3.1E-02	6671664	NT	NEURONAL ACETYLCHOLINE RECEPTOR PROTEIN, ALPHA-3 CHAIN PRECURSOR (GF-ALPHA-3)
1931	11826		1.09	3.1E-02	Z50097.1	NT	Mus musculus adaptor-related protein complex AP-3, delta subunit (Ap3d), mRNA
						NT	Drosophila melanogaster mRNA for headcase protein

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4152	14052		0.82	3.1E-02	AU119006.1	EST_HUMAN	AU119006 HEMBA1 Homo sapiens cDNA clone HEMBA1004842 5'
4767	14652	24440	0.99	3.1E-02	AW835913.1	EST_HUMAN	QV0-L T0014-250200-129-h09 LT0014 Homo sapiens cDNA
5290	15211		2.33	3.1E-02	AA278478.1	EST_HUMAN	zs81a06.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703858 5'
7765	17615	27843	2.62	3.1E-02	AF034779.1	NT	Enterococcus faecalis surface protein precursor, gene, complete cds
1606	11511		2.82	3.0E-02	AF187125.1	NT	Pityokines minutus cytochrome oxidase I gene, partial cds; mitochondrial gene for mitochondrial product
2541	12415	22305	1.07	3.0E-02	AA402242.1	EST_HUMAN	zif5h03.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727253 5'
3518	13434	23234	1.07	3.0E-02	M94176.1	NT	Saccharomyces cerevisiae stem-loop mutation suppressor SSL2 gene, complete cds
3503	13517	23305	2.61	3.0E-02	AF247644.1	NT	Pseudomonas fluorescens family II aminotransferase gene, complete cds
3595	13598		0.96	3.0E-02	AW820223.1	EST_HUMAN	QV2-ST0296-150200-040-e09 ST0296 Homo sapiens cDNA
3566	13777		1.18	3.0E-02	AA364003.1	EST_HUMAN	EST74530 Pineal gland II Homo sapiens cDNA 5' end
4773	14657	24444	0.89	3.0E-02	BE782830.1	EST_HUMAN	601472331F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3875503 5'
4983	14858	24624	6.02	3.0E-02	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
4983	14858	24625	6.02	3.0E-02	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
5312	15233		2.88	3.0E-02	AB046793.1	NT	Homo sapiens mRNA for KIAA1573 protein, partial cds
6066	16050	26196	2.71	3.0E-02	AJ242906.1	NT	Cyprinus carpio mRNA for inducible nitric oxide synthase (iNOS gene)
6127	15974	26109	3.58	3.0E-02	BE889948.1	EST_HUMAN	601512206F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913848 5'
6127	15974	26110	3.58	3.0E-02	BE889948.1	EST_HUMAN	601512206F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913848 5'
6207	15967	26101	1.79	3.0E-02	AF213884.1	NT	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds
6207	15967	26102	1.79	3.0E-02	AF213884.1	NT	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds
6292	16156	26311	1.54	3.0E-02	M86524.1	NT	Human dystrophin gene
7106	16983		2.11	3.0E-02	AF275654.1	NT	Ornithorhynchus anatinus coagulation factor X mRNA, complete cds
7978	17828	28069	1.71	3.0E-02	AE001797.1	NT	Thermotoga maritima section 109 of 136 of the complete genome
8562	18432	28701	3.09	3.0E-02	M81357.1	NT	Human coagulation factor VII (F7) gene exon 1 and factor X (F10) gene, exon 1
8937	18745	29039	7.7	3.0E-02	AA483216.1	EST_HUMAN	he8704.s1 NCL_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:911263
9396	19730	24909	1.66	3.0E-02	R32019.1	EST_HUMAN	h63d04.s1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:134407 3'
9740	19273		4.67	3.0E-02	AW895565.1	EST_HUMAN	QV4-NN0038-270400-187-h05 NN0038 Homo sapiens cDNA
9780	19723		2.09	3.0E-02	AF048687.1	NT	Rattus norvegicus UDP-Gal:glucosylceramide beta-1,4-galactosyltransferase mRNA, complete cds
2385	12720	22157	1.1	2.9E-02	AF228703.1	NT	Homo sapiens mitochondrial glutathione reductase and cytosolic glutathione reductase (GRD1) gene, complete cds, alternatively spliced
2962	12889	22687	1.07	2.9E-02	BE565644.1	EST_HUMAN	601338428F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680695 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2962	12889	22698	1.07	2.9E-02	BE565644.1	EST_HUMAN	601339428F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680695 5'
3951	13762	23555	0.92	2.9E-02	H72805.1	EST_HUMAN	y007e10.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:233130 5'
4950	14827	24593	1.32	2.9E-02	X65137.1	NT	S. vulgare pepC gene for PEP carboxylase
4950	14827	24594	1.32	2.9E-02	X65137.1	NT	S. vulgare pepC gene for PEP carboxylase
5799	15705	25817	6.47	2.9E-02	BF032233.1	EST_HUMAN	601452661F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856598 5'
6298	16162	26319	10.33	2.9E-02	BE271437.1	EST_HUMAN	601140729F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049830 5'
7568	17419	27635	1.94	2.9E-02	AW875979.1	EST_HUMAN	CM3-PT0014-071299-051-c04 P T0014 Homo sapiens cDNA
7568	17419	27636	1.94	2.9E-02	AW875979.1	EST_HUMAN	CM3-PT0014-071299-051-c04 P T0014 Homo sapiens cDNA
553	10494		0.87	2.8E-02	AW970153.1	EST_HUMAN	EST382234 MAGC resequences, MAGK Homo sapiens cDNA
3321	13241	23046	1.27	2.8E-02	AF066083.1	NT	Homo sapiens retinal fascin (FSCN2) gene, exon 2
3321	13241	23047	1.27	2.8E-02	AF066083.1	NT	Homo sapiens retinal fascin (FSCN2) gene, exon 2
4214	14112		0.98	2.8E-02	8393751	NT	Rattus norvegicus microtubule-associated protein tau (Mapt), mRNA
5373	15293	25140	11.41	2.8E-02	BE741083.1	EST_HUMAN	601594078F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948067 5'
6947	16726	26920	1.33	2.8E-02	AJ005920.1	NT	Craterostigma plantagineum mRNA for homeodomain leucine zipper protein (hb-1)
9874	19574		1.51	2.8E-02	R06966.1	EST_HUMAN	y12h02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:126675 5'
9880	19237		1.33	2.8E-02	X06322.1	NT	Yeast CN31C chromosome III RAHS DNA (right arm transcription hot-spot)
							Human germline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV9S1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV9S2A2PT, TCRBV7S2A1N4T, TCRBV13S9/13S>
1473	11378	21242	1.26	2.7E-02	U66059.1	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 6
3385	13303	23103	2	2.7E-02	AL161494.2	NT	y066h12.r1 Soares_multiple_sclerosis_2NblHMSP Homo sapiens cDNA clone IMAGE:280487 5'
4107	14007	23783	2.07	2.7E-02	N47258.1	EST_HUMAN	y066h12.r1 Soares_multiple_sclerosis_2NblHMSP Homo sapiens cDNA clone IMAGE:280487 5'
4107	14007	23784	2.07	2.7E-02	N47258.1	EST_HUMAN	y066h12.r1 Soares_multiple_sclerosis_2NblHMSP Homo sapiens cDNA clone IMAGE:280487 5'
6205	15965	26099	1.9	2.7E-02	AA993571.1	EST_HUMAN	096h03.s1 Soares_t0tal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1624661 3'
9848	19500	25134	1.52	2.7E-02	BF514898.1	EST_HUMAN	UIH-BW1-anj-f-05-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082520 3'
559	10499	20305	1.14	2.6E-02	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
1345	11251		1.04	2.6E-02	AW850515.1	EST_HUMAN	IL3-CT0219-280100-062-C09 CT0219 Homo sapiens cDNA
2315	12196	22093	2.9	2.6E-02	AA490021.1	EST_HUMAN	ab02b02.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:839595 3'
2317	12198	22095	2.86	2.6E-02	6754241	NT	Mus musculus histidine rich calcium binding protein (Hrc), mRNA
2317	12198	22096	2.86	2.6E-02	6754241	NT	Mus musculus histidine rich calcium binding protein (Hrc), mRNA
							Mus musculus MHC class III region RD gene, partial cds; Bf, C2, G9A, NG22, G9, HSP70, HSP70, HSC70, and smRNP genes, complete cds; G7A gene, partial cds; and unknown genes
2885	12812		1.55	2.6E-02	AF109906.1	NT	x066f09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2662409 3'
3883	13794		1.13	2.6E-02	AW181945.1	EST_HUMAN	601649877R1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3833786 3'
4517	14410		1.13	2.6E-02	BE988922.1	EST_HUMAN	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4811	14695	24481	3.69	2.6E-02	L12032.1	NT	Chicken dorsalis-1 mRNA, complete cds
4998	14873	24637	1.67	2.6E-02	AE002014.1	NT	Deinococcus radiodurans R1 section 151 of 229 of the complete chromosome 1
5025	14898	24667	2.06	2.6E-02	AW241154.1	EST_HUMAN	xa52b04.x1 NCI_CGAP_Sar4 Homo sapiens cDNA clone IMAGE:2570383 3' similar to SW:Y069_HUMAN
5771	15678		6.95	2.6E-02	AI206030.1	EST_HUMAN	Q15041 HYPOTHETICAL PROTEIN KIAA0089;
5870	15776	25895	2.08	2.6E-02	BE621748.1	EST_HUMAN	qg27f1.1.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1762317 3'
6130	15977	26113	6.09	2.6E-02	6981271	NT	601493473T1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895578 3'
7388	17306	27512	1.19	2.6E-02	11432020	NT	Rattus norvegicus Nerve growth factor receptor, fast (Ngfr), mRNA
7948	17798	28038	4.87	2.6E-02	AL163303.2	NT	Homo sapiens KIAA1070 protein (KIAA1070), mRNA
8892	18579		2.1	2.6E-02	AA279351.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
8848	18560	28949	1.89	2.6E-02	AW500547.1	EST_HUMAN	zs84c02.r1 NCI_CGAP_GOB1 Homo sapiens cDNA clone IMAGE:704162 5'
9320	19715	24906	1.55	2.6E-02	BF343827.1	EST_HUMAN	UI-HF-BNO-ekj-e-10-0-J1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077466 5'
521	10463	20274	1.45	2.5E-02	AI793130.1	EST_HUMAN	602015501F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4150944 5'
521	10463	20275	1.45	2.5E-02	AI793130.1	EST_HUMAN	on26f06.y5 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1557827 5'
792	10721	20582	12.83	2.5E-02	BE974314.1	EST_HUMAN	on26f06.y5 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1557827 5'
851	10778	20628	4.77	2.5E-02	BE974314.1	EST_HUMAN	601680305R2 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950665 3'
2735	12597		2.59	2.5E-02	U12571.1	NT	601680305R2 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950665 3'
2926	12853	22652	4.4	2.5E-02	X99697.1	NT	Rattus norvegicus rabphilin-3A mRNA, complete cds
2926	12853	22653	4.4	2.5E-02	X99697.1	NT	H. carterae mRNA for fucosanthin chlorophyll a/c binding protein, Fcp1
3959	15070	23643	1.09	2.5E-02	BE701165.1	EST_HUMAN	H. carterae mRNA for fucosanthin chlorophyll a/c binding protein, Fcp1
3959	15070	23644	1.09	2.5E-02	BE701165.1	EST_HUMAN	PM2-NN0128-080700-001-a12 NN0128 Homo sapiens cDNA
4111	14011	23788	5.07	2.5E-02	AW592114.1	EST_HUMAN	PM2-NN0128-080700-001-a12 NN0128 Homo sapiens cDNA
5759	15667		4.48	2.5E-02	BE670128.1	EST_HUMAN	ht36h08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2934015 3'
5767	15674		3.86	2.5E-02	BE746888.1	EST_HUMAN	7e30e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284008 3' similar to contains L1.1 L1
6519	16378	26555	1.57	2.5E-02	BF526722.1	EST_HUMAN	repetitive element;
6519	16378	26556	1.57	2.5E-02	BF526722.1	EST_HUMAN	6015793393F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928054 5'
8185	18071	28320	2.45	2.5E-02	Q10335	SWISSPROT	602070562F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4213406 5'
8185	18071	28321	2.45	2.5E-02	Q10335	SWISSPROT	602070562F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4213406 5'
8238	18118	28370	3.38	2.5E-02	AI237936.1	NT	HYPOTHETICAL 46.7 KD PROTEIN C19G10.05 IN CHROMOSOME I
							HYPOTHETICAL 46.7 KD PROTEIN C19G10.05 IN CHROMOSOME I
							Bos taurus partial stat5B gene, exons 17-19
							Mus musculus major histocompatibility locus class II region: major histocompatibility protein class II alpha chain (Aalpha) and major histocompatibility protein class II beta chain (Ibeta) genes, complete cds;
8255	18135		3.33	2.5E-02	AF050157.1	NT	butyrophilin-like (NG9), butyrophilin-lp
8978	18783		1.74	2.5E-02	AB007546.1	NT	Homo sapiens gene for LECT2, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9280	19557		2.19	2.5E-02	11420078	NT	Homo sapiens similar to ALEX3 protein (H. sapiens) (LOC63634), mRNA
9463	19528		1.63	2.5E-02	11433220	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
9581	19167	25271	2.39	2.5E-02	BE973327.1	EST_HUMAN	601652365R2 NIH_MGC 82 Homo sapiens cDNA clone IMAGE:3935513 3'
167	10139	19956	1.01	2.4E-02	AJ378582.1	EST_HUMAN	U72607.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:2070156 3'
1580	11484	21344	1.89	2.4E-02	H65884.1	EST_HUMAN	y75f11.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:211149 5'
1998	12710	21784	2.22	2.4E-02	P01901	SWISSPROT	H-2 CLASS HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K(B))
1998	12710	21785	2.22	2.4E-02	P01901	SWISSPROT	H-2 CLASS HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K(B))
4272	14171	23948	1.4	2.4E-02	J05110.1	NT	T. thermophila calcium-binding 25 kDa (TCBP 25) protein mRNA, complete cds
4420	14314	24099	1.43	2.4E-02	P01901	SWISSPROT	H-2 CLASS HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K(B))
4420	14314	24100	1.43	2.4E-02	P01901	SWISSPROT	H-2 CLASS HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K(B))
5119	14987		11.51	2.4E-02	AL161595.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 91
6962	16840	27032	10.36	2.4E-02	N69442.1	EST_HUMAN	za35g11.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:294596 3' similar to
7643	17493	27714	2.17	2.4E-02	AV692954.1	EST_HUMAN	gbjK02909[RATSR7K Rat (rRNA); contains A3R.b1 A3R repetitive element ;
7734	17584	27808	2.98	2.4E-02	AA493894.1	EST_HUMAN	h07b12.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone GKDCSC03 5'
							element; contains element P1R5 repetitive element ;
8857	18669	28956	1.96	2.4E-02	AF109905.1	NT	Mus musculus major histocompatibility locus class III regions Hsc70t gene, partial cds; smRNP, G7A, NG23, MuS homolog, CLCP, NG24, NG25, and NG26 genes, complete cds; and unknown genes
8857	18669	28957	1.96	2.4E-02	AF109905.1	NT	Mus musculus major histocompatibility locus class III regions Hsc70t gene, partial cds; smRNP, G7A, NG23, MuS homolog, CLCP, NG24, NG25, and NG26 genes, complete cds; and unknown genes
9080	18856		1.95	2.4E-02	9627909	NT	Bacteriophage b1.67, complete genome
9224	18947	25357	2.72	2.4E-02	6753635	NT	Mus musculus DinB homolog 1 (E. coli) (Dinb1), mRNA
9282	18984	25326	2.03	2.4E-02	BE928869.1	EST_HUMAN	MRO-FT0175-310800-202-a06 FT0175 Homo sapiens cDNA
9368	19036		1.27	2.4E-02	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9505	19120		3.87	2.4E-02	AB008569.1	NT	Caenorhabditis elegans mRNA for iron-sulfur subunit of mitochondrial succinate dehydrogenase, complete cds
9532	19138		1.6	2.4E-02	N42980.1	EST_HUMAN	yo08a06.1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270610 5'
9538	19141		1.38	2.4E-02	BF679477.1	EST_HUMAN	60215528IF1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294173 5'
9977	19667		1.59	2.4E-02	P54643	SWISSPROT	SPORE COAT PROTEIN SP87 PRECURSOR (PL3 PROTEIN)
1829	11726		5.79	2.3E-02	W05340.1	EST_HUMAN	za84g08.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:299294 5'
1844	11740		7.89	2.3E-02	U94165.1	NT	4 Homo sapiens mammary tumor-associated protein INT6 (INT6) gene, exon 4
2302	12183	22081	2.52	2.3E-02	Z74293.1	NT	S. cerevisiae chromosome IV reading frame ORF YDL245c

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3628	13542	23329	4.79	2.3E-02	Z20377.1	EST_HUMAN	HSAAACADH P, Human foetal Brain Whole tissue Homo sapiens cDNA
4057	13959	23735	1.19	2.3E-02	L24799.1	NT	Gallus gallus connexin 45.6 (Cx45.6) gene, complete cds
4057	13959	23736	1.19	2.3E-02	L24799.1	NT	Gallus gallus connexin 45.6 (Cx45.6) gene, complete cds
4323	14220	24002	1.26	2.3E-02	AW899107.1	EST_HUMAN	CM4-NN0080-290400-160-b04 NN0080 Homo sapiens cDNA
4347	14244	24027	0.81	2.3E-02	BE935225.1	EST_HUMAN	CM3-MT0118-010900-318-g07 MT0118 Homo sapiens cDNA
4347	14244	24028	0.81	2.3E-02	BE935225.1	EST_HUMAN	CM3-MT0118-010900-318-g07 MT0118 Homo sapiens cDNA
4348	15072	24029	0.94	2.3E-02	AW593693.1	EST_HUMAN	xs25d08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2770671 3'
4348	15072	24030	0.94	2.3E-02	AW593693.1	EST_HUMAN	xs25d08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2770671 3'
4472	14366	24155	1.75	2.3E-02	BE143150.1	EST_HUMAN	MRO-HT0159-151099-001-e03 HT0159 Homo sapiens cDNA
4490	14384	24171	2.39	2.3E-02	BF026487.1	EST_HUMAN	601672279F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955386 5'
4490	14384	24172	2.39	2.3E-02	BF026487.1	EST_HUMAN	601672279F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955386 5'
4948	14825	24591	1	2.3E-02	AI793177.1	EST_HUMAN	qz35c03.x5 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2028868 3'
4948	14825	24592	1	2.3E-02	AI793177.1	EST_HUMAN	qz35c03.x5 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2028868 3'
5302	15223	25027	3.57	2.3E-02	U86303.1	NT	Caulobacter crescentus topoisomerase IV ParE subunit (parE) gene, complete cds, and propionyl-CoA carboxylase beta chain (pcocB) homolog gene, partial cds
5990	15995	26018	4	2.3E-02	AL161505.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 17
5998	16478	26685	5.67	2.3E-02	U53810.1	NT	Human plectin (PLEC1) gene, exons 3-32, and complete cds
7764	17614	27841	1.51	2.3E-02	AE000199.1	NT	Escherichia coli K-12 MGI655 section 89 of 400 of the complete genome
7764	17614	27842	1.51	2.3E-02	AE000199.1	NT	Escherichia coli K-12 MGI655 section 89 of 400 of the complete genome
8162	18050	28302	2.15	2.3E-02	P08640	SWISSPROT	GLUCOAMYLASE S1S2 PRECURSOR (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE)
9201	19512		4.41	2.3E-02	BE278331.1	EST_HUMAN	601179958F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3548567 5'
9713	19254	25219	1.94	2.3E-02	U39394.1	NT	Streptomyces sp. alpha-1,3/4-fucosidase precursor gene, complete cds
9767	19756		2.27	2.3E-02	U11077.1	NT	Dictyostelium discoideum extracellular signal-regulated protein kinase (ERK1) mRNA, complete cds
9961	19609		1.27	2.3E-02	11426388	NT	Homo sapiens dead ringer (Drosophila)-like 1 (DRIL1), mRNA
720	10652	20482	3.09	2.2E-02	AF018267.1	NT	Columbia livia nucleoside diphosphate kinase (NDPK) gene, nuclear gene encoding mitochondrial protein, complete cds
1713	11614		1.53	2.2E-02	4557448	NT	Homo sapiens chromodomain helicase DNA binding protein 2 (CHD2) mRNA
1968	11861	21752	1.78	2.2E-02	Z82001.1	NT	S.pneumoniae popA gene and open reading frames
2895	12730	22448	1.4	2.2E-02	AF109633.1	NT	Mus musculus ets variant protein ER81 gene, exons 1 through 4
3388	13306		1.93	2.2E-02	AA577785.1	EST_HUMAN	nm24a04.s1 NCI_CGAP_Gas1 Homo sapiens cDNA clone IMAGE:1084782 3'
3595	13509		3.27	2.2E-02	AF083094.1	NT	Infectious bursal disease virus segment B strain IL4 VP1 gene, complete cds
3779	13691	23477	1.05	2.2E-02	AW601317.1	EST_HUMAN	PM0-BT0340-170100-004-b03 BT0340 Homo sapiens cDNA

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3844	13755	23549	0.99	2.2E-02	Z74293.1	NT	S.cerevisiae chromosome IV reading frame ORF YDL245c
6297	16161	26318	3.78	2.2E-02	AV699721.1	EST_HUMAN	AV699721 GKB Homo sapiens cDNA clone GK5AND03 3'
6876	16755	26982	2.26	2.2E-02	AL161515.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 27
6876	16755	26983	2.26	2.2E-02	AL161515.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 27
7585	17436	27651	2.33	2.2E-02	AB026998.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
7585	17436	27652	2.33	2.2E-02	AB026998.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
9466	19096		2.24	2.2E-02	AA503553.1	EST_HUMAN	ne7h07.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:900541 3' similar to contains Alu repetitive element;
413	10359		5.56	2.1E-02	AV761502.1	EST_HUMAN	AV761502 MDS Homo sapiens cDNA clone MDSADG01 5'
441	10385		7.99	2.1E-02	AF029726.1	NT	Dictyostelium discoideum histidine kinase C (dhkC) mRNA, complete cds
1242	11149	20998	7.43	2.1E-02	U72073.1	NT	Bacillus subtilis cotKLM cluster, CotK (cotK), CotL (cotL), and spore coat protein. CotM (cotM) genes, complete cds
1365	11270	21125	1.91	2.1E-02	AF204395.1	NT	Mus musculus macrophage migration inhibitory factor (MIF) gene, 5' flanking region and partial cds
1365	11270	21126	1.91	2.1E-02	AF204395.1	NT	Mus musculus macrophage migration inhibitory factor (MIF) gene, 5' flanking region and partial cds
1920	11815	21694	0.95	2.1E-02	AF190899.1	NT	Tegula aurectincta major acrosomal protein precursor (TMAP) mRNA, complete cds
2785	10893	20530	3.98	2.1E-02	N29266.1	EST_HUMAN	y43h07.r1 Soares melanocyte 2NbfHM Homo sapiens cDNA clone IMAGE:264541 5'
3110	11883	21776	0.85	2.1E-02	BE072546.1	EST_HUMAN	PM2-BT0546-120100-001-f11 BT0548 Homo sapiens cDNA
3110	11883	21777	0.85	2.1E-02	BE072546.1	EST_HUMAN	PM2-BT0546-120100-001-f11 BT0548 Homo sapiens cDNA
3535	13451	23247	1.23	2.1E-02	AA461271.1	EST_HUMAN	z63b09.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:796121 5'
4038	13941	23719	0.89	2.1E-02	Z74293.1	NT	S.cerevisiae chromosome IV reading frame ORF YDL245c
4342	14239	24022	1.61	2.1E-02	U44914.1	NT	Borrelia burgdorferi plasmid cp32-2, erpC and erpD genes, complete cds; and unknown genes
4351	14247	24033	1.03	2.1E-02	A1768127.1	EST_HUMAN	wg81d11.x1 Soares NSF F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371509 3'
4611	14499	24288	4.65	2.1E-02	Y08501.1	NT	A.thaliana mitochondrial genome, part A
4714	14600	24386	0.86	2.1E-02	A1823432.1	EST_HUMAN	wh5a05.x1 NCI_CGAP_K1d11 Homo sapiens cDNA clone IMAGE:2384528 3'
7553	17404	27618	1.8	2.1E-02	AJ243213.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
7553	17404	27619	1.8	2.1E-02	AJ243213.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
9449	15085		4.99	2.1E-02	Y19213.1	NT	Homo sapiens putative psIHbA pseudogene for hair keratin, exons 2 to 7
9957	19348	25184	3.33	2.1E-02	AF183913.1	NT	Azospirillum brasilense major outer membrane protein OmaA precursor (omaA) gene, complete cds
17	10004	19795	1.35	2.0E-02	BF002932.1	EST_HUMAN	7g51c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3309998 3' similar to contains MER1.3
18	10005	19796	7.86	2.0E-02	AW895555.1	EST_HUMAN	MER1 repetitive element;
							QV4-NN0038-270400-187-h05 NN0038 Homo sapiens cDNA

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
259	10225	20040	2.63	2.0E-02	6753635	NT	Mus musculus DinB homolog 1 (E. coli) (Dinb1), mRNA
292	10256	20077	2.62	2.0E-02	AA456538.1	EST_HUMAN	aat15b10.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:813307 5'
781	10711	20550	1.75	2.0E-02	6753635	NT	Mus musculus DinB homolog 1 (E. coli) (Dinb1), mRNA
1071	10987	20830	0.97	2.0E-02	AL096805.1	NT	Homo sapiens genomic region containing hypervariable minisatellites chromosome 1[p36.33] of Homo sapiens
1181	11092	20938	1.61	2.0E-02	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
1181	11092	20939	1.61	2.0E-02	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
1830	11727	21600	2.31	2.0E-02	8922453	NT	Homo sapiens hypothetical protein FLJ10486 (FLJ10486), mRNA
1830	11727	21601	2.31	2.0E-02	8922453	NT	Homo sapiens hypothetical protein FLJ10486 (FLJ10486), mRNA
2768	12630		1.75	2.0E-02	AL161532.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 32
3040	10004	19795	1.96	2.0E-02	BF002932.1	EST_HUMAN	7g51c08.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:3306998 3' similar to contains MER1.13
3105	13031		1.16	2.0E-02		NT	MER1 repetitive element ;
3189	13114		3.33	2.0E-02	7305474	NT	Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B (Sema6b), mRNA
3925	13834	23614	1.5	2.0E-02	AF095588.1	NT	Arabidopsis thaliana C2H2 zinc finger protein FZF mRNA, complete cds
5079	14949	24725	0.99	2.0E-02	M18095.1	NT	P. vulgaris hydroxyproline-rich glycoprotein (HRGP) mRNA, 3' end
5085	14955	24730	0.99	2.0E-02	AA456538.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C078
7679	17529		1.8	2.0E-02	U70408.1	NT	aat15b10.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:813307 5'
7930	17780	28019	1.59	2.0E-02	AL640342.1	EST_HUMAN	Japanese encephalitis virus envelope protein mRNA, partial cds
8037	17929	28175	2.01	2.0E-02	Z73986.1	NT	wa17b02.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2298315 3'
8978	18566	28849	2.55	2.0E-02	D88184.1	NT	Mycobacterium tuberculosis H37Rv complete genome; segment 93/162
8931	18739	29031	3.09	2.0E-02	10947055	NT	Equus caballus DNA for 17alpha-hydroxylase/17,20-lyase, complete cds
8931	18739	29032	3.09	2.0E-02	10947055	NT	Homo sapiens ankyrin 3, node of Ranvier (ankyrin G) (ANK3), transcript variant 1, mRNA
9019	14955	24730	1.41	2.0E-02	AA456538.1	EST_HUMAN	Homo sapiens ankyrin 3, node of Ranvier (ankyrin G) (ANK3), transcript variant 1, mRNA
9481	12630		1.56	2.0E-02	AL161532.2	NT	aat15b10.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:813307 5'
9928	19536		1.72	2.0E-02	BE786595.1	EST_HUMAN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 32
9935	19404		4.08	2.0E-02	T80037.1	EST_HUMAN	601478819F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3881477 5'
678	10611	20432	1.68	1.9E-02	AA572764.1	EST_HUMAN	ycd04c09.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:24675 5'
1599	11504	21364	0.84	1.9E-02	P18488	SWISSPROT	mf19a07.s1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:914196 similar to contains L1.t1 L1 repetitive element ;
1993	11887	21779	2.52	1.9E-02	AL163303.2	NT	EMPTY SPIRACLES HOMEOTIC PROTEIN
1993	11887	21780	2.52	1.9E-02	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
2458	12335	22230	0.87	1.9E-02	AL161550.2	NT	Homo sapiens chromosome 21 segment HS21C103
						NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 50

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2875	12802	22596	7.08	1.9E-02	AA713856.1	EST_HUMAN	hw04f05.s1 NCL_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238337 3'
2923	12850	22850	1.53	1.9E-02	AV648669.1	EST_HUMAN	AV648669 GLC Homo sapiens cDNA clone GLCBLH07 3'
3222	13146		0.82	1.9E-02	AB033611.1	NT	Urotichus talpoides mitochondrial gene for cytochrome b, complete cds
3560	13474		1.25	1.9E-02	N52250.1	EST_HUMAN	yz28b02.s1 Soares multiple sclerosis_2NblHMSF Homo sapiens cDNA clone IMAGE:284331 3'
3644	13558		5.75	1.9E-02	BE738088.1	EST_HUMAN	601572682F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3839564 5'
3654	13568						q04c07.x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1897260 3' similar to contains Alu repetitive element;
3664	13568	23355	0.98	1.9E-02	AI301183.1	EST_HUMAN	
3661	13688	23646	1.14	1.9E-02	AF141940.1	NT	Mycoplasma imitans VlhA1 precursor (vlhA1) and VlhA2 precursor (vlhA2) genes, partial cds
4099	13999	23777	1.47	1.9E-02	P09081	SWISSPROT	HOMEOTIC BICOID PROTEIN (PRD-4)
4099	13999	23778	1.47	1.9E-02	P09081	SWISSPROT	HOMEOTIC BICOID PROTEIN (PRD-4)
4441	14335	24125	2.51	1.9E-02	AA52989.1	EST_HUMAN	t46d04.x1 Soares NSF_F8_9W_OT_PA_S1 Homo sapiens cDNA clone IMAGE:2144551 3' similar to contains Alu repetitive element;
4944	12335	22230	1.9	1.9E-02	AL161550.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 50
5356	15276	25106	1.29	1.9E-02	LA7572.1	NT	Meleagris gallopavo paraoxonase-2 (PON2) mRNA, complete cds
6985	16862		1.29	1.9E-02	AL162754.2	NT	Neisseria meningitidis serogroup A strain Z2491 complete genome; segment 317
7377	17246	27452	1.47	1.9E-02	BF316129.1	EST_HUMAN	601896130F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125462 5'
7777	17627	27859	1.31	1.9E-02	BF695832.1	EST_HUMAN	601852385F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4076253 5'
9234	19516	25137	2.55	1.9E-02	AF101065.1	NT	Hirudo medicinalis intermediate filament gllarlin mRNA, complete cds
343	10302	20117	1.44	1.8E-02	AW771104.1	EST_HUMAN	hm52c06.x1 NCL_CGAP_Co17 Homo sapiens cDNA clone IMAGE:3027274 3' similar to contains element
670	10604	20421	1.14	1.8E-02	BF308122.1	EST_HUMAN	MER29 repetitive element ;
1144	11057	20900	1.34	1.8E-02	X17664.1	NT	601894329F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4139883 5'
1417	11323	21187	1.23	1.8E-02	AF243382.1	NT	H.francisci mRNA for myelin basic protein (MBP)
2645	12512	22403	1.51	1.8E-02	AE004544.1	NT	Drosophila melanogaster cytoplasmic protein encode (enc) mRNA, complete cds
3174	13099		0.89	1.8E-02	AB059329.1	EST_HUMAN	Pseudomonas aeruginosa PA01, section 105 of 529 of the complete genome
3812	13724	23513	1.09	1.8E-02	AW879122.1	EST_HUMAN	te52a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2090296 3'
3812	13724	23514	1.09	1.8E-02	AW879122.1	EST_HUMAN	MIR1-OT0011-280300-009-g04 OT0011 Homo sapiens cDNA
3996	13903		1.15	1.8E-02	AA861446.1	EST_HUMAN	MIR1-OT0011-280300-009-g04 OT0011 Homo sapiens cDNA
4332	14229	24011	1.44	1.8E-02	AW936363.1	EST_HUMAN	ak24h04.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1406935 3'
4873	14753	24532	1.05	1.8E-02	O60810	SWISSPROT	QV4-DT0021-301299-071-b11 DT0021 Homo sapiens cDNA
4887	14767	24543	1.06	1.8E-02	AI288701.1	EST_HUMAN	HYPOTHETICAL PROTEIN DJ845O24.2
6075	16058	26207	3.96	1.8E-02	P14310	SWISSPROT	q006b04.x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881007 3'
							HYPOTHETICAL 7.9 KD PROTEIN IN FIXW 5'REGION
							aj62f09.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1394921 3' similar to gb.L11672 ZINC FINGER PROTEIN 91 (HUMAN);
7560	17411		2.49	1.8E-02	AA897543.1	EST_HUMAN	

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7790	17640	27873	1.51	1.8E-02	BE77874.1	EST_HUMAN	601463545F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866963 5'
7871	17721	27966	1.23	1.8E-02	XG9633.1	NT	L. stagnalis mRNA for myomodulin neuropeptide precursor
8735	17884	28126	1.78	1.8E-02	AB002337.2	NT	Homo sapiens mRNA for KIAA0339 protein, partial cds
8735	17884	28127	1.78	1.8E-02	AB002337.2	NT	Homo sapiens mRNA for KIAA0339 protein, partial cds
8886	18697	28991	1.76	1.8E-02	AP000006.1	NT	Pyrococcus horikoshii OT3 genomic DNA, 1166001-1485000 nt. position (677)
8897	18706	29000	3.12	1.8E-02	U62749.1	NT	Zea mays acidic ribosomal protein P2a-3 (rpp2a-3) mRNA, partial cds
9912	19496		1.29	1.8E-02	AF047475.1	NT	Drosophila melanogaster projectin (projectin) gene, partial cds
888	10814	20662	1.29	1.7E-02	BE394869.1	EST_HUMAN	601310626F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632190 5'
1750	11650	21519	2.24	1.7E-02	AW573183.1	EST_HUMAN	hf34a03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2933740 3' similar to contains L1.t1 L1 repetitive element ;
1750	11650	21520	2.24	1.7E-02	AW573183.1	EST_HUMAN	hf34a03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2933740 3' similar to contains L1.t1 L1 repetitive element ;
1828	11725		3.08	1.7E-02	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2066	11956		13.03	1.7E-02	AB004816.1	NT	Oryzobiagus cuticulus mRNA for mitsugumin29, complete cds
2603	12471		1.35	1.7E-02	7657495	NT	Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA
2668	12895	22695	0.92	1.7E-02	AI147615.1	EST_HUMAN	qb22a08.x1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:1696982 3'
3467	13383		4.17	1.7E-02	AW627368.1	EST_HUMAN	hm45a04.x1 NCI_CGAP_RDF1 Homo sapiens cDNA clone IMAGE:3015534 3' similar to contains MER19.b1 MER19 repetitive element ;
3573	13487		0.98	1.7E-02	P04929	SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
4078	13980		0.98	1.7E-02	AA669618.1	EST_HUMAN	ac19f04.s1 Stratagene ovary (#937217) Homo sapiens cDNA clone IMAGE:856927 3' similar to contains Alu repetitive element; contains element MER24 repetitive element ;
4105	14005		1.78	1.7E-02	R02506.1	EST_HUMAN	ye86f08.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:124647 5'
4427	14322	24109	1.24	1.7E-02	AW573183.1	EST_HUMAN	hf34a03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2933740 3' similar to contains L1.t1 L1 repetitive element ;
4615	14503	24291	1.77	1.7E-02	V00641.1	NT	Messenger RNA for anglerfish (Lophius americanus) somatostatin II
4708	14594		5.27	1.7E-02	A015076.1	EST_HUMAN	ov51ed2.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1640858 3'
4967	14842	24612	5.47	1.7E-02	AF105037.1	NT	Murid herpesvirus 4 complete genome
5725	15632	25735	1.53	1.7E-02	A1769247.1	EST_HUMAN	wg35f09.x1 Soares_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2367113 3' similar to contains Alu repetitive element;
6276	16140	26296	2.31	1.7E-02	8400716	NT	Homo sapiens nebulin (NEB), mRNA
6554	16412		1.81	1.7E-02	AJ010770.1	NT	Homo sapiens hyperion gene, exons 1-50
7592	17443	27659	1.48	1.7E-02	AL040554.1	EST_HUMAN	DKFZp434i0314_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434i0314 5'
9781	19683	24995	2.25	1.7E-02	AW903482.1	EST_HUMAN	GM4-NN1030-040400-130-f06 NN1030 Homo sapiens cDNA
9861	19352		1.96	1.7E-02	Q03211	SWISSPROT	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN PRECURSOR (PELP)

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
501	10443		1.58	1.6E-02	AL021929.1	NT	Mycobacterium tuberculosis H37Rv complete genome; segment 13/162
1635	11539	21399	1.13	1.6E-02	Y18889.1	NT	Treponema mallophilum flaB2, flaB3 and flaD genes for flagellin subunit proteins and CAP protein homologue
2202	12089	21990	1.13	1.6E-02	Q64176	SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
2202	12089	21991	1.13	1.6E-02	Q64176	SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
2518	12392	22284	0.98	1.6E-02	AJ006345.1	NT	Homo sapiens KVLQT1 gene
2606	12474	22368	1.47	1.6E-02	AA484872.1	EST_HUMAN	ne81d06.s1 NCL CGAP_Ew1 Homo sapiens cDNA clone IMAGE:910667
2662	12529		1.14	1.6E-02	AB014534.1	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
3481	13397	23202	3.83	1.6E-02	AW850552.1	EST_HUMAN	IL3-CT0219-160200-063-007 CT0219 Homo sapiens cDNA
							Mus musculus major histocompatibility complex region NG27, NG28, RPS28, NADH oxidoreductase, NG29, KIFC1, Fas-binding protein, BING1, tapasin, RalGDS-like, KE2, BING4, beta 1,3-galactosyl transferase, and RPS18 genes, complete cds; Sacm21 gene, partial>
4084	13986		2.16	1.6E-02	AF110520.1	NT	QV2-PT0012-140100-030-f07 PT0012 Homo sapiens cDNA
4203	14102	23885	0.94	1.6E-02	AW875407.1	EST_HUMAN	Mus musculus CD5 antigen (Cd5), mRNA
5456	15377	25437	1.31	1.6E-02	6671715	NT	Candida albicans CaGCR3 gene, complete cds
6003	15908	26032	2.11	1.6E-02	AB015281.1	NT	Human apoC-II gene for preproapolipoprotein C-II
6758	16637		4.01	1.6E-02	X05151.1	NT	Drosophila melanogaster enhancer of polycomb (E(Pc)) mRNA, complete cds
7773	17623		2.71	1.6E-02	AF079764.1	NT	nf19g03.s1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:914260 similar to SW:TELO_RABIT
7954	17804	28044	1.47	1.6E-02	AA572818.1	EST_HUMAN	P29294 TELOKIN. [1];
							nf19g03.s1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:914260 similar to SW:TELO_RABIT
7954	17804	28045	1.47	1.6E-02	AA572818.1	EST_HUMAN	P29294 TELOKIN. [1];
8280	19473	28401	2.17	1.6E-02	Z94828.1	NT	G.gallus microsatellite DNA (LEI0260 (=T16iIE11))
8544	18416	28683	2.52	1.6E-02	AL161508.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
8544	18416	28684	2.52	1.6E-02	AL161508.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
8801	18615	28905	1.91	1.6E-02	AI373558.1	EST_HUMAN	qz96e10.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:2042442 3'
9211	12089	21990	1.35	1.6E-02	Q64176	SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
9211	12089	21991	1.35	1.6E-02	Q64176	SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
9577	19165		2.3	1.6E-02	X92751.1	NT	R.norvegicus gene for choline acetyltransferase, exon 1 (non coding)
9973	19433		1.42	1.6E-02	11417966	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
734	10666		24.9	1.5E-02	8923734	NT	Homo sapiens transcription factor (HSA130894), mRNA
2095	11984	21879	3.81	1.5E-02	N39521.1	EST_HUMAN	y27b07.s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:243925 3'
2128	12016	21914	2.38	1.5E-02	AL161594.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 90
3023	12951	22743	1.44	1.5E-02	AJ006216.1	NT	Homo sapiens CACNA1F gene, exons 1 to 48
3023	12951	22744	1.44	1.5E-02	AJ006216.1	NT	Homo sapiens CACNA1F gene, exons 1 to 48

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3663	13577	23365	0.9	1.5E-02	BF092942.1	EST_HUMAN	MR4-TN0115-080900-201-b12 TN0115 Homo sapiens cDNA
4049	13951	23727	1.23	1.5E-02	AA160967.1	EST_HUMAN	zq40g10.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632226 5'
4367	14263	24048	0.91	1.5E-02	AF260225.1	NT	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced
5801	15707	25819	1.91	1.5E-02	Q09711	SWISSPROT	HYPOTHETICAL CALCIUM-BINDING PROTEIN C18B11.04 IN CHROMOSOME 1
6332	16195		1.66	1.5E-02	11487282	NT	Cyanophora paradoxa cyanelle, complete genome
6377	16239	26399	1.36	1.5E-02	11418713	NT	Homo sapiens KIAA1009 protein (KIAA1009), mRNA
6596	16476	26684	1.53	1.5E-02	AL163303.2	NT	Homo sapiens chromosome 21 segment HS27C103
6600	16480	26688	3.44	1.5E-02	11417739	NT	Homo sapiens valyl-tRNA synthetase 2 (VARS2), mRNA
7126	17003	27195	1.23	1.5E-02	BF345554.1	EST_HUMAN	602019135F1 NCL CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4154504 5'
7520	17339	27545	2.07	1.5E-02	D44606.1	NT	Saccharomyces cerevisiae chromosome VI plasmid GapC
7646	17496	27717	1.25	1.5E-02	R32667.1	EST_HUMAN	yf54b10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:133531 5'
7646	17496	27718	1.25	1.5E-02	R32667.1	EST_HUMAN	yf54b10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:133531 5'
8508	18380	28647	2.5	1.5E-02	L40609.1	NT	Plasmodium falciparum (strain FCR3) variant-specific surface protein (var-2, var-3) genes, complete cds's
9429	19559		1.32	1.5E-02	AW750834.1	EST_HUMAN	RC4-CN0049-140100-011-c11 CN0049 Homo sapiens cDNA
9980	19437		1.47	1.5E-02	AU134730.1	EST_HUMAN	AU134730 PLACE1 Homo sapiens cDNA clone PLACE1000374 5'
411	10357		1.45	1.4E-02	AE002230.2	NT	Chlamydomonas reinhardtii AF39, section 58 of 94 of the complete genome
1102	11018	20860	3.58	1.4E-02	7705980	NT	Homo sapiens NESH protein (LOC51225), mRNA
1236	11143		1.35	1.4E-02	U32800.1	NT	Haemophilus influenzae Rd section 115 of 163 of the complete genome
1276	11184		2.82	1.4E-02	U67779.1	NT	Xenopus laevis neurogenin related 1b (X-NGNR-1b) mRNA, complete cds
1374	11280		0.94	1.4E-02	AF216854.1	NT	Homo sapiens headpin gene, complete cds
1501	11405		0.96	1.4E-02	AV723785.1	EST_HUMAN	AV723785 HTB Homo sapiens cDNA clone HTBAHH11 5'
3176	13101	22905	1.9	1.4E-02	AF160969.2	NT	Bifidobacterium longum Na+/H+ antiporter (nhaB), cytosine deaminase, and alpha-galactosidase (aglL) genes, complete cds; and N-acetylglucosamine/xylose repressor protein (nagC/xyR) gene, partial cds
3352	13272	23074	0.99	1.4E-02	AW074212.1	EST_HUMAN	x09409.x1 NCI CGAP_GU1 Homo sapiens cDNA clone IMAGE:2575793 3'
3439	13356	23161	5.21	1.4E-02	AL161586.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 82
3439	13356	23162	5.21	1.4E-02	AL161586.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 82
3476	13392	23197	0.98	1.4E-02	4503628	NT	Homo sapiens coagulation factor XII (Hageman factor) (F12), mRNA
3506	13520	23308	6.16	1.4E-02	696918	NT	Mus musculus histocompatibility 2, complement component factor B (H2-Bf), mRNA
4387	14283	24082	7.29	1.4E-02	AW962688.1	EST_HUMAN	EST374761 MAGC resequences, MAGG Homo sapiens cDNA
4387	14283	24083	7.29	1.4E-02	AW962688.1	EST_HUMAN	EST374761 MAGC resequences, MAGG Homo sapiens cDNA
4775	14659	24445	6.7	1.4E-02	BE733142.1	EST_HUMAN	601567403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842280 5'
4775	14659	24446	6.7	1.4E-02	BE733142.1	EST_HUMAN	601567403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842280 5'

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5862	15768	25887	4.62	1.4E-02	AA559030.1	EST_HUMAN	n11c04.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1029980 3' similar to contains Alu repetitive element;
5862	15768	25888	4.62	1.4E-02	AA559030.1	EST_HUMAN	n11c04.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1029980 3' similar to contains Alu repetitive element;
6732	16312		1.82	1.4E-02	AL022073.1	NT	Mycobacterium tuberculosis H37Rv complete genome; segment 88/162
7408	17275	27481	2.07	1.4E-02	BE544561.1	EST_HUMAN	601078239F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464241 5'
9126	18885	28790	4.79	1.4E-02	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
9476	19102		1.55	1.4E-02	AF324985.1	NT	Arabidopsis thaliana F21J9.2 mRNA, complete cds
9753	19277		1.89	1.4E-02	11426968	NT	Homo sapiens sperm associated antigen 7 (SPAG7), mRNA
1821	11718		0.86	1.3E-02	BE739283.1	EST_HUMAN	601566462F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3826335 5'
1912	11807	21684	2.41	1.3E-02	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3177	13102	22906	1.99	1.3E-02	BF697081.1	EST_HUMAN	602129475F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4286203 5'
3177	13102	22907	1.99	1.3E-02	BF697081.1	EST_HUMAN	602129475F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4286203 5'
3888	13799		1.41	1.3E-02	AF169288.1	NT	Mus musculus beta-sarcoglycan gene, complete cds
5176	11807	21684	1	1.3E-02	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
5212	15135	24854	1.36	1.3E-02	AL049856.2	NT	Mus musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zinc finger protein 275, Zinc finger protein 92, mnxq28orf
5212	15135	24855	1.36	1.3E-02	AL049856.2	NT	Mus musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zinc finger protein 275, Zinc finger protein 92, mnxq28orf
6156	15114	24856	1.35	1.3E-02	AL161546.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 46
6156	15114	24857	1.35	1.3E-02	AL161546.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 46
6473	16332	26499	4.77	1.3E-02	AI031593.1	EST_HUMAN	ow06g05.x1 Soares_parathyroid_tumor_NbHHPA Homo sapiens cDNA clone IMAGE:1646072 3' similar to contains Alu repetitive element;
6939	16817	27010	1.74	1.3E-02	AF166981.1	NT	Homo sapiens human endogenous retrovirus W gagC3.37 G gag (gag) gene, complete cds
7862	17712	27956	1.87	1.3E-02	M63707.1	NT	Mouse kidney androgen-regulated protein (KAP) gene, complete cds
8360	18237	28484	4.39	1.3E-02	AW268563.1	EST_HUMAN	xv34e03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2815036 3'
8360	18237	28485	4.39	1.3E-02	AW268563.1	EST_HUMAN	xv34e03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2815036 3'
9102	19705		2.92	1.3E-02	X51780.1	NT	Yeast ABP1 gene for actin binding protein
9482	19694		1.6	1.3E-02	Z99117.1	NT	Bacillus subtilis complete genome (section 14 of 21); from 2599451 to 2812870
9586	19170		1.8	1.3E-02	9633069	NT	Human herpesvirus 6B, complete genome
9758	19486		28.64	1.3E-02	AF162238.1	NT	Homo sapiens V1b vasopressin receptor (VPR3) gene, complete cds
9949	19744	24912	1.32	1.3E-02	AF009179.1	NT	Oryza sativa replication protein A1 (Os-RPA1) mRNA, complete cds
206	10177		0.94	1.2E-02	X87344.1	NT	H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, LMP7, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 genes

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
352	10310	20128	1.74	1.2E-02	AA059299.1	EST_HUMAN	z65501.1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:381840 5' similar to contains element L1 repetitive element ;
445	10389	20210	1.48	1.2E-02	P39898	SWISSPROT	HYPOPHOSPHATASE 17.1 KD PROTEIN IN PUR5 3'REGION
721	10653	20483	2.98	1.2E-02	AI183522.1	EST_HUMAN	qd68a12.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1734670 3' similar to contains L1.t1 L1 repetitive element ;
2130	12018	21916	1.99	1.2E-02	AL163213.2	NT	Homo sapiens chromosome 21 segment HS21C013
2393	12271	22167	1.23	1.2E-02	AW172350.1	EST_HUMAN	xj37e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2659432 3'
2448	12325	22223	1.1	1.2E-02	BE538310.1	EST_HUMAN	601068406F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3454608 5'
2448	12325	22224	1.1	1.2E-02	BE538310.1	EST_HUMAN	601068406F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3454608 5'
2596	12271	22167	1.27	1.2E-02	AW172350.1	EST_HUMAN	xj37e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2659432 3'
3063	12990		6.18	1.2E-02	AA075418.1	EST_HUMAN	zm88e03.r1 Stralagene ovarian cancer (#937219) Homo sapiens cDNA clone IMAGE:545020 5'
3250	13173	22971	1.89	1.2E-02	R62805.1	EST_HUMAN	y11b08.s1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:138903 3'
4830	14712	24495	2.04	1.2E-02	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
4974	14849		1.73	1.2E-02	AB019786.1	NT	Cynops pyrrhogaster Cplbq1T mRNA, partial cds
5017	14891	24659	2.12	1.2E-02	AV731704.1	EST_HUMAN	AV731704 HTF Homo sapiens cDNA clone HTFBHG11 5'
5516	15434	25497	1.96	1.2E-02	D78589.1	NT	Rana rugosa mRNA for calreticulin, complete cds
6180	16066	26216	5.33	1.2E-02	AF175412.1	NT	Mus musculus DNA methyltransferase (Dnmt1) gene, exons 2, 3, 4, and 5
6327	16190	26352	6.37	1.2E-02	AV732083.1	EST_HUMAN	AV732083 HTF Homo sapiens cDNA clone HTFBJC09 5'
6665	16545	26742	2.11	1.2E-02	Q11205	SWISSPROT	GMP-N-ACETYLNEURAMINATE-BETA-GALACTOSAMIDE-ALPHA-2,3-SIALYLTRANSFERASE (BETA-GALACTOSIDE ALPHA-2,3-SIALYLTRANSFERASE) (ALPHA 2,3-ST) (GAL-NAC6S) (GAL-BETA-1,3-GALNAc-ALPHA-2,3-SIALYLTRANSFERASE) (ST3GAL4.2) (SIAT4-B)
6765	16644	26832	1.22	1.2E-02	AF193612.1	NT	Homo sapiens fringe protein mRNA, partial cds
6765	16644	26833	1.22	1.2E-02	AF193612.1	NT	Homo sapiens fringe protein mRNA, partial cds
7152	17029		1.17	1.2E-02	T76987.1	EST_HUMAN	yf72c08.s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:113774 3'
7557	17408	27623	2.45	1.2E-02	AB031013.1	NT	Norwalk-like virus genogroup 2 gene for capsid protein, complete cds
7575	17426	27640	1.23	1.2E-02	AJ246003.1	NT	Norwalk-like virus genogroup 2 gene for capsid protein, complete cds
9177	18918	25345	1.78	1.2E-02	O15534	SWISSPROT	Homo sapiens Spast gene for spastin protein
9588	19575		1.5	1.2E-02	P17139	SWISSPROT	PERIOD CIRCADIAN PROTEIN 1 (CIRCADIAN PACEMAKER PROTEIN RIGUJ) (HPER)
9766	19286		3.47	1.2E-02	C18119.1	SWISSPROT	COLLAGEN ALPHA 1(IV) CHAIN PRECURSOR
1248	11155	21004	1.32	1.1E-02	AA070364.1	EST_HUMAN	C18119 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-557G06 5'
1679	11581	21451	1.99	1.1E-02	X75491.1	NT	zm69e11.s1 Stralagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:530924 3'
1679	11581	21452	1.99	1.1E-02	X75491.1	NT	H.sapiens LIPA gene, exon 4
							H.sapiens LIPA gene, exon 4

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1992	11886	21778	4.35	1.1E-02	BF345263.1	EST_HUMAN	602018037F1 NCL_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4153808 5'
2848	12776		3.53	1.1E-02	N99523.1	EST_HUMAN	za40e05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295040 5'
2933	12660	22660	10.39	1.1E-02	AF050506.1	NT	Homo sapiens MHC class 1 region
3478	13394	23200	2.46	1.1E-02	AI653508.1	EST_HUMAN	tc95b10.x1 NCL_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2216539 3' similar to SW:XPf_HUMAN
3937	13846		0.87	1.1E-02	BE144637.1	EST_HUMAN	Q92889 DNA-REPAIR PROTEIN COMPLEMENTING XP-F CELL ;
4016	13921		0.97	1.1E-02	AW813796.1	EST_HUMAN	PM3-HT0175-300999-001-h06 HT0175 Homo sapiens cDNA
4723	14609	24395	1.81	1.1E-02	AL048383.2	EST_HUMAN	RC3-ST0197-120200-015-g11 ST0197 Homo sapiens cDNA
4821	14704		0.92	1.1E-02	AW820281.1	EST_HUMAN	DKFZp586E0924_s1 586 (synonym: hute1) Homo sapiens cDNA clone DKFZp586E0924
6480	16339	26506	2.26	1.1E-02	BE149611.1	EST_HUMAN	QV2-ST0296-150200-028-c11 ST0296 Homo sapiens cDNA
7160	17037	27230	6.87	1.1E-02	Q61982	SWISSPROT	RC1-HT0256-100300-016-h07 HT0256 Homo sapiens cDNA
							NEUROGENIC LOCUS NOTCH 3 PROTEIN
7710	17560	27765	2.25	1.1E-02	AA082578.1	EST_HUMAN	zn24a01.r1 Stratagene neuroepithelium NT2RAMI 937234 Homo sapiens cDNA clone IMAGE:548328 5'
7810	17660	27900	4.1	1.1E-02	AA314665.1	EST_HUMAN	EST186494 Colon carcinoma (HCC) cell line II Homo sapiens cDNA 5' end
8347	18224	28476	3.38	1.1E-02	11435505	NT	Homo sapiens T-box 5 (TBX5), mRNA
9064	18845		2.23	1.1E-02	AA668239.1	EST_HUMAN	ab77f11.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:853005 3' similar to contains
6	9992	19785	3.35	1.0E-02	AW846120.1	EST_HUMAN	Alu repetitive element;
1506	11411	21270	0.91	1.0E-02	AW363128.1	EST_HUMAN	MR3-CT0176-111099-003-e10 CT0176 Homo sapiens cDNA
2525	12399		1.2	1.0E-02	AA806399.1	EST_HUMAN	CM2-HT0177-041099-017-h12 HT0177 Homo sapiens cDNA
3051	12978	22771	2.37	1.0E-02	BE835556.1	EST_HUMAN	cc22h08.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1350495 3'
3226	13150	22950	1.18	1.0E-02	BE968999.1	EST_HUMAN	RC0-FN0025-250500-021-d02 FN0025 Homo sapiens cDNA
3464	13380		0.99	1.0E-02	AW845621.1	EST_HUMAN	601649967R1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933689 3'
3805	13717	23505	0.79	1.0E-02	AI065086.1	EST_HUMAN	MR0-CT0060-081099-003-h10 CT0060 Homo sapiens cDNA
4667	14553	24345	4.26	1.0E-02	6753521	NT	HA0921 Human fetal liver cDNA library Homo sapiens cDNA
4736	14621	24407	2.38	1.0E-02	R96567.1	EST_HUMAN	Mus musculus corticotropin releasing hormone receptor 2 (Chr2), mRNA
4995	14870	24633	0.85	1.0E-02	AF218910.1	NT	y64h01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:199633 5'
5149	15016		0.82	1.0E-02	BE876539.1	EST_HUMAN	Homo sapiens attractin precursor (ATRIN) gene, exon 25 and complete cds, alternatively spliced
5751	15659	25766	2.74	1.0E-02	AW577113.1	EST_HUMAN	601486286F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888908 5'
5751	15659	25767	2.74	1.0E-02	AW577113.1	EST_HUMAN	MR4-BT0356-070100-201-h01 BT0356 Homo sapiens cDNA
6054	16037	26178	2.06	1.0E-02	Z29642.1	NT	MR4-BT0356-070100-201-h01 BT0356 Homo sapiens cDNA
7403	17270	27475	4.65	1.0E-02	BF036331.1	EST_HUMAN	Z.mays U3snRNA pseudogene
7403	17270	27476	4.65	1.0E-02	BF036331.1	EST_HUMAN	601459570F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863177 5'

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8586	18454		2.1	1.0E-02	AF157559.1	NT	Citridia fasciculata 27 kDa guide RNA-binding protein mRNA, complete cds; mitochondrial gene for mitochondrial product
8674	18562	28846	2.03	1.0E-02	AV760016.1	EST_HUMAN	AV760016 MDS Homo sapiens cDNA clone MDSBDC10 5'
9142	19762		1.7	1.0E-02	Q62203	SWISSPROT	SPICEOSOME ASSOCIATED PROTEIN 62 (SAP 62) (SPLICING FACTOR 3A SUBUNIT 2) (SF3A66)
9202	19835	25061	2.95	1.0E-02	AW935521.1	EST_HUMAN	RC2-DT0007-120200-016-h02 DT0007 Homo sapiens cDNA
9217	19890		5.22	1.0E-02	S70330.1	NT	Homo sapiens renal dipeptidase (RDP) gene, complete cds
9745	19845		2.44	1.0E-02	X62654.1	NT	H. sapiens gene for Me491/CD63 antigen
875	10801	20651	1.7	9.0E-03	AI796126.1	EST_HUMAN	W42f09.x1 NCJ CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2389433 3' similar to contains element
1243	11150		1.97	9.0E-03	BE781899.1	EST_HUMAN	MER22 MER22 repetitive element;
2346	12226	22123	3.26	9.0E-03	AL161559.2	NT	601470242F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873346 5'
2593	12463	22355	1.08	9.0E-03	AJ243727.1	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 59
2593	12463	22355	1.08	9.0E-03	AJ243727.1	NT	Oncorhynchus nerka proviral gypsy retrotransposon partial reverse transcriptase and protease genes (pol gene)
2593	12463	22356	1.08	9.0E-03	AJ243727.1	NT	Oncorhynchus nerka proviral gypsy retrotransposon partial reverse transcriptase and protease genes (pol gene)
2876	12803	22597	0.83	9.0E-03	AI251744.1	EST_HUMAN	qh90f09.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1854281 3'
2876	12803	22598	0.83	9.0E-03	AI251744.1	EST_HUMAN	qh90f09.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1854281 3'
3617	13531	23317	0.92	9.0E-03	J05184.1	NT	S.acidocaldarius thermopsis gene, complete cds
4914	14793	24568	1.17	9.0E-03	BE047949.1	EST_HUMAN	tz44e10.y1 NCJ CGAP_Brt52 Homo sapiens cDNA clone IMAGE:2291466 5'
5181	15045		2.56	9.0E-03	AF137240.1	NT	Sargocentron sp. mixed lineage leukemia-like protein (MLI) gene, partial cds
5997	15902		4.17	9.0E-03	BE745988.1	EST_HUMAN	601573438F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834752 5'
6897	16477		1.18	9.0E-03	AL039991.1	EST_HUMAN	DKFZp434L0412_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0412 5'
7673	17523	27749	1.47	9.0E-03	P20908	SWISSPROT	COLLAGEN ALPHA 1(V) CHAIN PRECURSOR
8354	18231		1.95	9.0E-03	Y18000.1	NT	Homo sapiens NF2 gene
9352	19763		1.34	9.0E-03	BF351141.1	EST_HUMAN	PM1-HT0452-291299-001-e09 HT0452 Homo sapiens cDNA
9557	19758		11.59	9.0E-03	BE348365.1	EST_HUMAN	hw17b09.x1 NCJ CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183161 3'
9562	15045		1.27	9.0E-03	AF137240.1	NT	Sargocentron sp. mixed lineage leukemia-like protein (MLI) gene, partial cds
9649	19215	25259	1.62	9.0E-03	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
9843	19341		27.64	9.0E-03	BF351141.1	EST_HUMAN	PM1-HT0452-291299-001-e09 HT0452 Homo sapiens cDNA
493	10436		3.2	8.0E-03	AA723007.1	EST_HUMAN	zh30e03.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:413596 3' similar to contains Alu repetitive element;
973	10897	20744	45.2	8.0E-03	AF106656.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
2113	12002	21900	2.38	8.0E-03	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2930	12857		0.86	8.0E-03	U47048.1	NT	Escherichia coli microcin 24 region, DNA binding protein (mdbA), immunity protein (mtfI), microcin 24 (mtfS), and microcin transport protein (mtfA, mtfB) genes, complete cds
3270	13191	22890	0.97	8.0E-03	BE171225.1	EST_HUMAN	RC1-HT0545-120200-011-b09 HT0545 Homo sapiens cDNA
3314	13235	23039	0.89	8.0E-03	AJ131016.1	NT	Homo sapiens SCL gene locus
3792	13704		1.07	8.0E-03	AF058764.1	NT	Xenopus laevis bone morphogenetic protein 4 (BMP-4) gene, complete cds
4286	14185	23966	5.12	8.0E-03	BF33327.1	EST_HUMAN	CM4-NN0119-300600-223-b05 NN0119 Homo sapiens cDNA
							Mus musculus major histocompatibility complex region NG27, NG28, RPS28, NADH oxidoreductase, NG29, KIFC1, Fas-binding protein, BING1, tapasin, RalGDS-like, KE2, BING4, beta 1,3-galactosyl transferase, and RPS18 genes, complete cds; Sacm21 gene, partial>
5391	15310	25164	2.7	8.0E-03	AF110520.1	NT	Pyrococcus horikoshii OT3 genomic DNA, 287001-544000 nt. position (27)
5761	19453	25775	1.35	8.0E-03	AP000002.1	NT	PROBABLE PEPTIDASE Y4NA
6048	15951	26081	4.52	8.0E-03	P55577	SWISSPROT	A.californica (marine gastropod mollusc) neuropeptide gene (bag cell), exon 1, 5' end
6279	16143	26299	2.19	8.0E-03	M17197.1	NT	Tursiops truncatus mRNA for p40-phox, complete cds
6453	16314		1.86	8.0E-03	AB038267.1	NT	MR1-ST0111-111199-011-h06 ST0111 Homo sapiens cDNA
7168	17043	27235	3.81	8.0E-03	AW808892.1	EST_HUMAN	QV1-BT0677-040400-131-g03 BT0677 Homo sapiens cDNA
7717	17567		4.72	8.0E-03	BE088509.1	EST_HUMAN	601475619F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3878405 5'
8148	18036	28284	1.92	8.0E-03	BE788441.1	EST_HUMAN	S.cerevisiae chromosome X reading frame ORF YJR152w
8353	18230		2.78	8.0E-03	Z49652.1	NT	cd80a09.s1 NCL_CGAP_Ov2 Homo sapiens cDNA clone IMAGE:1374232
8687	18575	28858	1.75	8.0E-03	AA828817.1	EST_HUMAN	cd80a09.s1 NCL_CGAP_Ov2 Homo sapiens cDNA clone IMAGE:1374232
8687	18575	28859	1.75	8.0E-03	AA828817.1	EST_HUMAN	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
8953	18760	29053	4.83	8.0E-03	AF064589.1	NT	Oryctolagus cuniculus eIF-2a kinase mRNA, complete cds
9075	18852		1.34	8.0E-03	M69035.1	NT	Homo sapiens ABCG1 gene for ABC transporter (ATP-binding cassette, sub-family G (WHITE), member 1), complete cds
9121	18882		3.36	8.0E-03	AB038161.1	NT	Cryptosporidium parvum HC-10 gene, complete cds
679	10612	20433	11.58	7.0E-03	AF097183.1	NT	Cryptosporidium parvum HC-10 gene, complete cds
679	10612	20434	11.58	7.0E-03	AF097183.1	NT	Glycine max glutathione S-transferase GST 21 mRNA, partial cds
961	10884	20732	2.01	7.0E-03	AF243376.1	NT	AV731712 HTF Homo sapiens cDNA clone HTFAZF10 5'
1100	11016	20858	2.6	7.0E-03	AV731712.1	EST_HUMAN	FORKHEAD BOX PROTEIN D3 (HNF3/IFH TRANSCRIPTION FACTOR GENESIS) (HEPATOCTE
1341	11247		1.19	7.0E-03	Q61060	SWISSPROT	NUCLEAR FACTOR 3 FORKHEAD HOMOLOG 2) (HFH-2)
1373	11279	21135	13.73	7.0E-03	AA668298.1	EST_HUMAN	ab79b09.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:853145 3'
1486	11391	21251	4.6	7.0E-03	AW303599.1	EST_HUMAN	xc21b02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813739 3'
2210	12715	22001	2.24	7.0E-03	P04929	SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
3702	13616	23400	1.27	7.0E-03	AW444463.1	EST_HUMAN	UI-H-B13-akb-c-10-0-UI.1 NCL_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733691 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3741	13653	23436	1.01	7.0E-03	AF196344.1	NT	Rattus norvegicus neuronal nicotinic acetylcholine receptor subunit (Alpha10) mRNA, complete cds
4434	14329		1.23	7.0E-03	AW117711.1	EST_HUMAN	xe34f09.x1 NCL_CGAP_U1 Homo sapiens cDNA clone IMAGE:2609033 3' similar to TR:Q12987 Q12987
4495	14389		1.01	7.0E-03	AW630888.1	EST_HUMAN	ACIDIC 82 KDA PROTEIN ;
4916	14785		1.76	7.0E-03	AL163276.2	NT	hh89a05.y1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969936 5'
							Homo sapiens chromosome 21 segment HS21C078
5038	14910	24883	1.1	7.0E-03	BE044191.1	EST_HUMAN	h039h08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3039807 3' similar to TR:O93434
5038	14910	24884	1.1	7.0E-03	BE044191.1	EST_HUMAN	Q93434 RETICULOCALBIN ;
5717	19452		5.07	7.0E-03	AW861059.1	EST_HUMAN	h039h08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3039807 3' similar to TR:O93434
5813	15718	25831	1.49	7.0E-03	W68251.1	EST_HUMAN	RC1-CT0286-050400-018-c08 CT0286 Homo sapiens cDNA
5939	15844	25967	3.46	7.0E-03	AA327129.1	EST_HUMAN	zd33f10.r1 Soares_fetal_heart NBHH19W Homo sapiens cDNA clone IMAGE:342475 5'
5964	15859	25980	1.3	7.0E-03	BE857385.1	EST_HUMAN	EST130674 Colon I Homo sapiens cDNA 5' end
6210	15992	26127	2.39	7.0E-03	BE928133.1	EST_HUMAN	7g34b10.x1 NCL_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3308347 3' similar to TR:Q13387
6441	16302	26466	4.98	7.0E-03	Z35838.1	NT	Q13387 HYPOTHETICAL PROTEIN 384D8_2 ; contains TAR1.12 TAR1 repetitive element ;
6441	16302	26467	4.98	7.0E-03	Z35838.1	NT	CM2-CT0478-230800-347-b11 CT0478 Homo sapiens cDNA
6723	16603	26792	2.29	7.0E-03	BE175667.1	EST_HUMAN	S.cerevisiae chromosome II reading frame ORF YBL077w
7605	17456	27670	2.53	7.0E-03	P48982	SWISSPROT	S.cerevisiae chromosome II reading frame ORF YBL077w
7605	17456	27671	2.53	7.0E-03	P48982	SWISSPROT	RC5-HT0582-160300-011-D02 HT0582 Homo sapiens cDNA
7906	17756		1.27	7.0E-03	AV687379.1	EST_HUMAN	BETA-GALACTOSIDASE PRECURSOR (LACTASE)
8201	18086	28337	3.36	7.0E-03	AB008852.1	NT	BETA-GALACTOSIDASE PRECURSOR (LACTASE)
							AV687379 GK0 Homo sapiens cDNA clone GK0AFC07 5'
9609	19750		1.55	7.0E-03	H94065.1	EST_HUMAN	Bos taurus mRNA for NDP52, complete cds
9615	19194		1.88	7.0E-03	BE263253.1	EST_HUMAN	Yv15h01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:242833 3' similar to contains
9962	19425		1.83	7.0E-03	AW868110.1	EST_HUMAN	Alu repetitive element;
1220	11129	20979	9.29	6.0E-03	AW511148.1	EST_HUMAN	601145154F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160476 5'
1220	11129	20980	9.29	6.0E-03	AW511148.1	EST_HUMAN	RC0-SN0052-110400-021-a04 SN0052 Homo sapiens cDNA
2744	12806	22499	1.09	6.0E-03	AF112374.1	NT	hd22a05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910224 3' similar to
2862	12790	22581	3.11	6.0E-03	AA759135.1	EST_HUMAN	SW:PXN_HUMAN 075469 ORPHAN NUCLEAR RECEPTOR PXR ;
2862	12790	22582	3.11	6.0E-03	AA759135.1	EST_HUMAN	hd22a05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910224 3' similar to
							SW:PXN_HUMAN 075469 ORPHAN NUCLEAR RECEPTOR PXR ;
							Danio rerio odrant receptor gene cluster
							ah78e11.s1 Soares_testis_NHT Homo sapiens cDNA clone 1321772 3'
							ah78e11.s1 Soares_testis_NHT Homo sapiens cDNA clone 1321772 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3208	13132		2.06	6.0E-03	H75690.1	EST_HUMAN	yr77h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:211351 5'
3264	13187		0.82	6.0E-03	AF190338.1	NT	Notoncus sp. cytochrome c oxidase subunit II gene, partial cds; mitochondrial gene for mitochondrial product
3336	13256	23062	1.24	6.0E-03	U90880.1	NT	Fugu rubripes zinc finger protein, isotocin, fatty acid binding protein, septipierin reductase and vasotocin genes, complete cds
3336	13256	23063	1.24	6.0E-03	U90880.1	NT	Fugu rubripes zinc finger protein, isotocin, fatty acid binding protein, septipierin reductase and vasotocin genes, complete cds
3499	13416		1.05	6.0E-03	W37985.1	EST_HUMAN	zc13a11.r1 Soares parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:322172 5'
3610	13524	23311	3.62	6.0E-03	BF510986.1	EST_HUMAN	UI-H-B14-apm-c-08-0-JL.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3087754 3'
3711	13624	23407	1.28	6.0E-03	6754029	NT	Mus musculus glucosamine-6-phosphate deaminase (Gnpl), mRNA
3846	13757	23551	0.93	6.0E-03	AW847284.1	EST_HUMAN	RCO-CT0204-240999-021-b10 CT0204 Homo sapiens cDNA
3873	13784		1.18	6.0E-03	BE250108.1	EST_HUMAN	600942904F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959513 5'
4231	14129		0.87	6.0E-03	N55946.1	EST_HUMAN	yy62h10.s1 Soares multiple sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:278179 3'
4267	14166		1.37	6.0E-03	A1016833.1	EST_HUMAN	o33c11.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1639124 3'
4597	14485	24271	6.82	6.0E-03	AA324242.1	EST_HUMAN	EST127116 Cerebellum II Homo sapiens cDNA 5' and similar to EST containing Alu repeat
5115	14983	24758	1.83	6.0E-03	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5129	14996	24767	0.89	6.0E-03	AA889972.1	EST_HUMAN	a195g09.s1 Soares parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1404266 3'
6506	16365	26542	1.97	6.0E-03	AF128894.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 7-16 and complete cds
6586	16466	26657	7.04	6.0E-03	A1033980.1	EST_HUMAN	ow13a04.x1 Soares parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1646670 3' similar to contains MER10.b1 MER10 repetitive element;
6650	16530	26724	2.44	6.0E-03	AW799337.1	EST_HUMAN	RCO-UM0051-210300-032-g02 UM0051 Homo sapiens cDNA
6689	16569		1.41	6.0E-03	BF038198.1	EST_HUMAN	601454915F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3858626 5'
7509	17297	27506	8.21	6.0E-03	D10548.1	NT	Subacute sclerosing panencephalitis (SSPE) virus mRNA for fusion protein
7776	17626		1.94	6.0E-03	A1432661.1	EST_HUMAN	ti22c02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2131202 3' similar to SW:R13A_HUMAN
7949	17799	28039	1.5	6.0E-03	X68366.1	NT	P40429 60S RIBOSOMAL PROTEIN L13A ; M.thermofilicicum complete plasmid pFV1 DNA
8127	18015	28263	2.23	6.0E-03	AW962164.1	EST_HUMAN	EST1374237 MAGG resequences, MAGG Homo sapiens cDNA
8186	18072		2.21	6.0E-03	11545814	NT	Homo sapiens hypothetical zinc finger protein FLJ14011 (FLJ14011), mRNA
8220	18102	28356	1.89	6.0E-03	A1420786.1	EST_HUMAN	te91c12.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2094070 3' similar to TR:O00519 O00519 FATTY ACID AMIDE HYDROLASE ;
8220	18102	28357	1.89	6.0E-03	A1420786.1	EST_HUMAN	te91c12.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2094070 3' similar to TR:O00519 O00519 FATTY ACID AMIDE HYDROLASE ;
8350	18227		3.91	6.0E-03	U14556.1	NT	Mus musculus zinc-finger protein mRNA, complete cds
8351	18228	28479	3.54	6.0E-03	BE737895.1	EST_HUMAN	601572146F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3839747 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9185	18922		1.59	6.0E-03	AF010496.1	NT	Rhodobacter capsulatus strain SB1003, partial genome
9310	19519		3.6	6.0E-03	AE000833.1	NT	Methanobacterium thermoautotrophicum from bases 429192 to 450296 (section 39 of 148) of the complete genome
9372	19038		1.34	6.0E-03	AB025356.1	NT	Anguilla japonica mRNA for activin B, complete cds
9392	19583		2.21	6.0E-03	U30790.1	NT	Pneumocystis carinii f. sp. ratti guanine nucleotide binding protein alpha subunit (pcgr1) gene, complete cds
9722	19262		1.57	6.0E-03	BE788019.1	EST_HUMAN	601482621F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3885388 5'
9741	19274		1.34	6.0E-03	AJ245480.1	NT	Brassica napus slg gene for S-locus glycoprotein, cultivar T2
653	10589	20406	1.9	5.0E-03	L25105.1	NT	Chlamydia trachomatis partial ORF8; aminoacyl-tRNA synthase, complete cds; complete ORFA, and grpE-like protein, complete cds
653	10589	20407	1.9	5.0E-03	L25105.1	NT	Chlamydia trachomatis partial ORF8; aminoacyl-tRNA synthase, complete cds; complete ORFA, and grpE-like protein, complete cds
654	10589	20406	2.92	5.0E-03	L25105.1	NT	Chlamydia trachomatis partial ORF8; aminoacyl-tRNA synthase, complete cds; complete ORFA, and grpE-like protein, complete cds
654	10589	20407	2.92	5.0E-03	L25105.1	NT	Chlamydia trachomatis partial ORF8; aminoacyl-tRNA synthase, complete cds; complete ORFA, and grpE-like protein, complete cds
1096	11012	20854	1.38	5.0E-03	AJ010457.1	NT	Arabidopsis thaliana mRNA for DEAD box RNA helicase, RH3
1552	11457		0.91	5.0E-03	A138977.1	EST_HUMAN	q079005.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1735689 3'
2648	12515	22405	3.44	5.0E-03	AB033006.1	NT	Homo sapiens mRNA for KIAA1180 protein, partial cds
2905	12832	22629	0.95	5.0E-03	BE266057.1	EST_HUMAN	601194796F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3538793 5'
3097	13024	22820	4.08	5.0E-03	T87623.1	EST_HUMAN	yc81f09.s1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:22395 3'
3116	13041		1.75	5.0E-03	AL161491.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 3
3129	13054	22853	1.04	5.0E-03	R71794.1	EST_HUMAN	y86g02.s1 Soares breast 2NBHst Homo sapiens cDNA clone IMAGE:155666 3'
3240	13163		1.08	5.0E-03	AJ297357.1	NT	Homo sapiens partial LMD1 gene for LIM domains containing protein 1 and KIAA0851 gene
3641	13555	23341	4.16	5.0E-03	AF147449.2	NT	Pseudomonas aeruginosa strain PAO1 penicillin-binding protein 1B (ponB) gene, complete cds
3698	13612	23396	0.83	5.0E-03	U38914.1	NT	Citrus sinensis seed storage protein citrin mRNA, complete cds
3890	13807		1.38	5.0E-03	AA299676.1	EST_HUMAN	EST12218 Uterus tumor 1 Homo sapiens cDNA 5' end
4207	14106	23886	0.93	5.0E-03	H78335.1	EST_HUMAN	y479g10.1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:240066 5'
4209	13612	23396	0.91	5.0E-03	U38914.1	NT	Citrus sinensis seed storage protein citrin mRNA, complete cds
4503	14396	24181	0.94	5.0E-03	AJ131016.1	NT	Homo sapiens SCL gene locus
4619	14507	24296	2.49	5.0E-03	A1752387.1	EST_HUMAN	cn15c02.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn15c02 random
5541	15458	25528	5.34	5.0E-03	P35500	SWISSPROT	SODIUM CHANNEL PROTEIN PARA (PARALYTIC PROTEIN)

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5685	15594	25695	2.43	5.0E-03	000507	SWISSPROT	PROBABLE UBIQUITIN CARBOXYL-TERMINAL HYDROLASE FAF-Y (UBIQUITIN THIOLESTERASE FAF-Y) (UBIQUITIN-SPECIFIC PROCESSING PROTEASE FAF-Y) (DEUBIQUITINATING ENZYME FAF-Y) (FAT FACETS PROTEIN RELATED, Y-LINKED) (UBIQUITIN-SPECIFIC PROTEASE 9, Y CHROMOSOME)
5977	15881		6.17	5.0E-03	BE300091.1	EST_HUMAN	600944564T1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960871 3'
6091	15101	24877	6.02	5.0E-03	AB025024.1	NT	Mus musculus AMD1 gene for S-adenosylmethionine decarboxylase, complete cds
6566	16424	26605	6.26	5.0E-03	AB016816.1	NT	Homo sapiens MASL1 mRNA, complete cds
6794	16673	26865	1.97	5.0E-03	P48982	SWISSPROT	BETA-GALACTOSIDASE PRECURSOR (LACTASE)
7006	16883		6.92	5.0E-03	M61132.1	NT	Mouse complement receptor (CR2) mRNA, 3' end
8103	17993		7.44	5.0E-03	T19886.1	EST_HUMAN	694F Heart Homo sapiens cDNA clone 694
8310	18187	28435	3.17	5.0E-03	AW170334.1	EST_HUMAN	xn59g05.x1 Soares_NHCEC_cervical_tumor Homo sapiens cDNA clone IMAGE:2698040 3' similar to contains L1 L2 L1 repetitive element;
8310	18187	28436	3.17	5.0E-03	AW170334.1	EST_HUMAN	xn59g05.x1 Soares_NHCEC_cervical_tumor Homo sapiens cDNA clone IMAGE:2698040 3' similar to contains L1 L2 L1 repetitive element;
8399	18275	28527	1.95	5.0E-03	T49153.1	EST_HUMAN	yp09e04.r1 Stratagene placenta (#937225) Homo sapiens cDNA clone IMAGE:70686 5'
8433	18307	28563	1.77	5.0E-03	10946753	NT	Mus musculus hypothetical protein, MNCb-4760 (LOC58212), mRNA
8644	18508		3.73	5.0E-03	BE048055.1	EST_HUMAN	tz46c04.y1 NCI_CGAP_Bn52 Homo sapiens cDNA clone IMAGE:2291622 5'
9327	19709		5.04	5.0E-03	AF047874.1	NT	Gallus gallus glyceraldehyde-3-phosphate dehydrogenase mRNA, complete cds
9460	19091		8.65	5.0E-03	AF067253.1	NT	Brugia malayi Y chromosome marker
9555	19153		1.55	5.0E-03	L10347.1	NT	Human pro-alpha1 type II collagen (COL2A1) gene exons 1-54, complete cds
9592	19174		1.28	5.0E-03	AA456597.1	EST_HUMAN	zx76a03.s1 Soares ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:809548 3' similar to SW:DXA2 MOUSE P14685 PROBABLE DIPHENOL OXIDASE A2 COMPONENT;
9616	19529		4.16	5.0E-03	BF572332.1	EST_HUMAN	60207774F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4252002 5'
9791	19301	25197	1.94	5.0E-03	AW449109.1	EST_HUMAN	UI-H-B13-akt-f-08-0-UI.s1 NCI_CGAP_Sub55 Homo sapiens cDNA clone IMAGE:2734215 3'
9808	19601		1.4	5.0E-03	Q02388	SWISSPROT	COLLAGEN ALPHA 1(VII) CHAIN PRECURSOR (LONG-CHAIN COLLAGEN) (LC COLLAGEN)
9929	19400		1.41	5.0E-03	A1668709.1	EST_HUMAN	zb74g05.x5 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:309368 3'
232	10201	20015	2.97	4.0E-03	AW500196.1	EST_HUMAN	UI-HF-BN0-alc-h-04-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076831 5'
318	10280	20097	2.18	4.0E-03	R46482.1	EST_HUMAN	yg51e04.s1 Soares_infant_brain_1N1B Homo sapiens cDNA clone IMAGE:35988 3'
436	10380	20203	0.94	4.0E-03	P54675	SWISSPROT	PHOSPHATIDYLINOSITOL 3-KINASE 3 (PI3-KINASE) (PTDINS-3-KINASE) (PI3K)
588	10526	20333	3	4.0E-03	AA939339.1	EST_HUMAN	on75g12.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1562566 3'
859	10785	20637	1.81	4.0E-03	R46482.1	EST_HUMAN	yg51e04.s1 Soares_infant_brain_1N1B Homo sapiens cDNA clone IMAGE:1562566 3'
893	10819		3.43	4.0E-03	AW749101.1	EST_HUMAN	RC3-BT0333-110100-012-f01 BT0333 Homo sapiens cDNA clone IMAGE:35988 3'
1133	11047	20889	32.55	4.0E-03	AA099777.1	EST_HUMAN	2B1a08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:510998 5'
1153	11066	20910	1.58	4.0E-03	AW794740.1	EST_HUMAN	RC6-UM0014-170400-023-G01 UM0014 Homo sapiens cDNA

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1281	11189	21040	1.33	4.0E-03	AA284374.1	EST_HUMAN	zs59a01.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:701736 5'
1568	11472		1.31	4.0E-03	AV708305.1	EST_HUMAN	AV708305 ADC Homo sapiens cDNA clone ADCAKB06 5'
1709	11610	21480	2.2	4.0E-03	U39472.1	NT	Rattus norvegicus type 1 astrocyte and olfactory-limbic associated protein AT1-46 mRNA, complete cds
1971	11864	21757	20.87	4.0E-03	AA099777.1	EST_HUMAN	z181a08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:510998 5'
2200	12087		1.66	4.0E-03	BE410556.1	EST_HUMAN	601304161F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638510 5'
2232	12117	22019	1.46	4.0E-03	AW794740.1	EST_HUMAN	RC6-UM0014-170400-023-G01 UM0014 Homo sapiens cDNA
2526	12400	22290	1.89	4.0E-03	U52111.2	NT	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
2526	12400	22291	1.89	4.0E-03	U52111.2	NT	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
2659	12526	22414	2.86	4.0E-03	AJ277365.1	NT	Homo sapiens polyglutamine-containing C14ORF4 gene
2659	12526	22415	2.86	4.0E-03	AJ277365.1	NT	Homo sapiens polyglutamine-containing C14ORF4 gene
2664	12530	22418	1.02	4.0E-03	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
3487	13403	23207	0.94	4.0E-03	AW188426.1	EST_HUMAN	xj98f04.x1 NCI_CGAP_Cot18 Homo sapiens cDNA clone IMAGE:2665279 3'
3487	13403	23208	0.94	4.0E-03	AW188426.1	EST_HUMAN	xj98f04.x1 NCI_CGAP_Cot18 Homo sapiens cDNA clone IMAGE:2665279 3'
3572	13486	23278	0.8	4.0E-03	Q13606	SWISSPROT	OLFATORY RECEPTOR 511 (OLFATORY RECEPTOR-LIKE PROTEIN OLF1)
3836	13486	23278	0.83	4.0E-03	Q13606	SWISSPROT	OLFATORY RECEPTOR 511 (OLFATORY RECEPTOR-LIKE PROTEIN OLF1)
3852	13763	23556	0.85	4.0E-03	AF060868.1	NT	Mus musculus tumor susceptibility protein 101 (tsg101) gene, complete cds
3914	13823		1.79	4.0E-03	AJ011712.1	NT	Homo sapiens TNNT1 gene, exons 1-11 (and joined CDS)
4509	14402	24190	1.13	4.0E-03	AJ732754.1	EST_HUMAN	ab18a08.x5 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:841142 3' similar to contains Alu repetitive element
5164	15030	24796	13.17	4.0E-03	J02187.1	NT	Foot and mouth disease virus serotype A-12/119ab capsid protein VP3
5225	15149	24916	1.66	4.0E-03	AF005859.1	NT	Drosophila melanogaster anon2D7 (anon2D7) mRNA, complete cds
5315	15236	25039	19.53	4.0E-03	AF169825.1	NT	Rattus norvegicus beta-catenin binding protein mRNA, complete cds
5540	15457	25527	4.23	4.0E-03	P04196	SWISSPROT	(HPRG)
5542	15459	25529	1.5	4.0E-03	P21849	SWISSPROT	MAJOR SURFACE-LABELLED TROPHOZOITE ANTIGEN PRECURSOR
5704	15612		3.23	4.0E-03	U22180.1	NT	Rattus norvegicus opsin gene, complete cds
5809	15714	25827	1.76	4.0E-03	BE548453.1	EST_HUMAN	601076015F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3461954 5'
6062	16045	26190	1.52	4.0E-03	U76408.1	NT	Lycopodium obscurum knotted 3 protein (Tkn3) mRNA, complete cds
6271	16136	26291	4.14	4.0E-03	Q02817	SWISSPROT	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2)
6690	16570	26762	3.61	4.0E-03	AF111944.1	NT	Dictyostellum discoideum AX4 development protein DG1122 (DG1122) gene, partial cds

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6774	16663	26841	2.02	4.0E-03	7662067	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
7056	16933	27123	7.4	4.0E-03	AI553983.1	EST_HUMAN	U49b1.1.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2090013 3' similar to contains Alu repetitive element;
7151	17028		4.41	4.0E-03	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
7159	17036	27229	3.38	4.0E-03	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
8472	18345	28609	5.64	4.0E-03	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
9295	19725		3.95	4.0E-03	BE815173.1	EST_HUMAN	PM4-BN0738-180600-002-b08 BN0738 Homo sapiens cDNA
9317	19009		2.25	4.0E-03	BE298290.1	EST_HUMAN	601118164F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028095 5'
9628	19202		3	4.0E-03	BE224125.1	EST_HUMAN	7q74c09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to contains Alu repetitive element; contains element MER31 repetitive element;
9666	19640		1.57	4.0E-03	AW614596.1	EST_HUMAN	hh02c07.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953932 3' similar to contains element LTR5 repetitive element;
9679	19236		1.57	4.0E-03	AW819141.1	EST_HUMAN	RC3-ST0281-240400-015-f03 ST0281 Homo sapiens cDNA
9950	19416	26168	1.52	4.0E-03	11436955	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
367	10323	20146	1.62	3.0E-03	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
861	10787	20638	7.66	3.0E-03	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
1638	11542	21401	1.84	3.0E-03	AA468110.1	EST_HUMAN	nc73c05.s1 NCI_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:782984 similar to contains Alu repetitive element;
2211	12097		0.87	3.0E-03	AF055066.1	NT	Homo sapiens MHC class 1 region
2248	12132		3.9	3.0E-03	Z32521.1	NT	S.cereale (cv. Halo) mRNA for triosephosphate isomerase
2249	12133	22029	1.12	3.0E-03	U46858.1	NT	Mus musculus intestinal trefoil factor gene, partial cds
2249	12133	22030	1.12	3.0E-03	U46858.1	NT	Mus musculus intestinal trefoil factor gene, partial cds
2863	12890		0.84	3.0E-03	Y09006.1	NT	Arabidopsis thaliana rpoM1 gene
3044	12971	22765	4.53	3.0E-03	BE379296.1	EST_HUMAN	601237982F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609933 5'
3112	13037	22833	2.62	3.0E-03	AW802887.1	EST_HUMAN	IL2-JM0076-240300-056-D03 UM0076 Homo sapiens cDNA
3371	13290	23089	1.95	3.0E-03	U34606.1	NT	Mus musculus alpha-1(XVIII) collagen (COL18A1) gene, exon 1 and 2
3379	13297		6.75	3.0E-03	Y12500.1	NT	C.elegans samdc gene
3895	13805	23591	7.43	3.0E-03	AV762392.1	EST_HUMAN	AV762392 MDS Homo sapiens cDNA clone MDSBSG01 5'
3895	13805	23592	7.43	3.0E-03	AV762392.1	EST_HUMAN	AV762392 MDS Homo sapiens cDNA clone MDSBSG01 5'
3950	13858	23632	1.58	3.0E-03	AF92278.1	EST_HUMAN	ah0409.y6 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1155689 5'
4058	13960		1.34	3.0E-03	Z32521.1	NT	S.cereale (cv. Halo) mRNA for triosephosphate isomerase
4296	14194	23978	11.91	3.0E-03	AJ011432.1	NT	Rattus norvegicus gdnf gene
4417	14311	24096	4.37	3.0E-03	AI536141.1	EST_HUMAN	xu8.P10.H3 conorm Homo sapiens cDNA 3'
4630	14518	24309	0.88	3.0E-03	AL119087.1	EST_HUMAN	DKFZb761B0712_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZb761B0712 5'

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4727	14613	24399	1.54	3.0E-03	A1732754.1	EST_HUMAN	ab18a08.x5 Stralagene lung (#937210) Homo sapiens cDNA clone IMAGE:841142 3' similar to contains Alu repetitive element;
4745	14630	24416	7.09	3.0E-03	BE787945.1	EST_HUMAN	601482715F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3885483 5'
5089	14959	24733	1.11	3.0E-03	4506414	NT	Homo sapiens RAP1, GTPase activating protein 1 (RAP1GA1) mRNA
5089	14959	24734	1.11	3.0E-03	4506414	NT	Homo sapiens RAP1, GTPase activating protein 1 (RAP1GA1) mRNA
5220	15143	24837	3.17	3.0E-03	8922499	NT	Homo sapiens hypothetical protein FLJ10539 (FLJ10539), mRNA
5410	15330	25380	1.41	3.0E-03	AJ249981.1	NT	Mus musculus mRNA for hypothetical protein (ORF2 ortholog)
5946	15851	25974	9.97	3.0E-03	AA456701.1	EST_HUMAN	aa13f10.t1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:813163 5'
6277	16141	26297	1.54	3.0E-03	AJ011419.1	NT	Kluyveromyces marxianus pop3 gene for purine-cytosine permease
6442	16303	26468	3.71	3.0E-03	AB021736.1	NT	Oryza sativa gene for bZIP protein, complete cds
6741	16620	26809	2.01	3.0E-03	N92580.1	EST_HUMAN	zb27b04.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:304783 3'
6928	16806	27001	1.29	3.0E-03	P51989	SWISSPROT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A2 HOMOLOG 1 (HNRNP A2(A))
6940	16818	27011	1.57	3.0E-03	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
6991	16888		1.38	3.0E-03	Q9QM81	SWISSPROT	NONSTRUCTURAL PROTEIN V
7199	17076		8.52	3.0E-03	AW613774.1	EST_HUMAN	hh80f10.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969131 3' similar to contains L1.11 L1 repetitive element;
7230	17107	27297	4.1	3.0E-03	AL161589.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 85
7244	17121	27317	8.9	3.0E-03	AJ016731.1	EST_HUMAN	ov03d12.x1 NCI_CGAP_Ki43 Homo sapiens cDNA clone IMAGE:1636247 3' similar to gb:X57138_mna1 HISTONE H2B.2 (HUMAN);
7598	17449		3.48	3.0E-03	P08672	SWISSPROT	CIRCUMSPOROZOITE PROTEIN PRECURSOR (CS)
							RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ;
7694	17544	27768	1.29	3.0E-03	P11369	SWISSPROT	ENDONUCLEASE
7742	17592	27813	1.46	3.0E-03	P51989	SWISSPROT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A2 HOMOLOG 1 (HNRNP A2(A))
7836	17686	27931	4.05	3.0E-03	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
8222	18104		2.69	3.0E-03	5803028	NT	Homo sapiens ATP/GTP-binding protein (HEAB), mRNA
8685	18573	28856	2.11	3.0E-03	AF009222.1	NT	Pneumocystis carinii kexin-like serine endoprotease mRNA, partial cds
8744	17893	28137	2.01	3.0E-03	AF266285.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds
8773	18590	28877	3.06	3.0E-03	AF094481.1	NT	Homo sapiens trinucleotide repeat DNA binding protein p20-CGGBP (CGGBP) gene, complete cds
8773	18590	28878	3.06	3.0E-03	AF094481.1	NT	Homo sapiens trinucleotide repeat DNA binding protein p20-CGGBP (CGGBP) gene, complete cds
							RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ;
							ENDONUCLEASE
8841	18654	28942	1.93	3.0E-03	P11369	SWISSPROT	promina-5.E07.7 b1umor Homo sapiens cDNA 5'
9068	19542		2.02	3.0E-03	A1525056.1	EST_HUMAN	o477b10.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1622779 3' similar to contains L1.13 MER26 repetitive element;
9103	18870	28780	1.54	3.0E-03	AA993154.1	EST_HUMAN	

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9159	19668		1.35	3.0E-03	AB009688.1	NT	Homo sapiens gene for CMP-N-acetylneuraminic acid hydroxylase, partial cds
9339	19019	25296	2.33	3.0E-03	AJ296282.1	NT	Rattus norvegicus mRNA for connexin36 (cx36 gene)
504	10446	20258	0.89	2.0E-03	Q04652	SWISSPROT	RING CANAL PROTEIN (KELCH PROTEIN)
504	10446	20259	0.89	2.0E-03	Q04652	SWISSPROT	RING CANAL PROTEIN (KELCH PROTEIN)
768	12677		7.01	2.0E-03	T70874.1	EST_HUMAN	yc15h03.r1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:108341 5'
1340	11246	21104	1.93	2.0E-03	M20783.1	NT	Human alpha-2-plasmin inhibitor gene, exons 6 and 7
1343	11249	21106	1.59	2.0E-03	AA661605.1	EST_HUMAN	nu86f01.s1 NCI_CGAP_Alv1 Homo sapiens cDNA clone IMAGE:1217593
1353	11259	21115	12.6	2.0E-03	AF284446.1	NT	Homo sapiens tumor-related protein DRC2 (DRC2) gene, complete cds
1474	11379	21243	1.11	2.0E-03	P48509	SWISSPROT	PLATELET-ENDOTHELIAL TETRASPAN ANTIGEN 3 (PETA-3) (GP27) MEMBRANE GLYCOPROTEIN SFA-1) (CD151 ANTIGEN)
1500	11404	21263	1.91	2.0E-03	4557836	NT	Homo sapiens procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI) (PLOD) mRNA
1500	11404	21264	1.91	2.0E-03	4557836	NT	Homo sapiens procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI) (PLOD) mRNA
1573	11477		4.94	2.0E-03	P29400	SWISSPROT	COLLAGEN ALPHA 5(V) CHAIN PRECURSOR
1733	11634	21502	1.38	2.0E-03	AA450138.1	EST_HUMAN	zx42a10.r1 Soares_tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789114 5'
1950	11845	21731	2.17	2.0E-03	AF302891.1	NT	Mus musculus myelin expression factor-3-like protein gene, partial cds
2203	12090	21992	1.04	2.0E-03	AL163302.2	NT	Homo sapiens chromosome 21 segment HS21C102
2535	12409		4.62	2.0E-03	AW137782.1	EST_HUMAN	U1-H-B11-adi-g-10-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717010 3'
3370	13289	23088	4.03	2.0E-03	AA450138.1	EST_HUMAN	zx42a10.r1 Soares_tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789114 5'
3376	13294	23093	1.02	2.0E-03	BF568955.1	EST_HUMAN	602183960T1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300070 3'
3615	13529	23315	4.87	2.0E-03	X87344.1	NT	H. sapiens DMA, DMB, HLA-Z1, IIP2, LMP2, TAP1, LMP7, TAP2, DOB, DOB2 and RING8, 9, 13 and 14 genes
3869	13780	23572	0.92	2.0E-03	AB040802.1	NT	Rattus norvegicus mRNA for SREB1, complete cds
4024	13927	23703	2.15	2.0E-03	P03374	SWISSPROT	ENV POLYPROTEIN [CONTAINS: COAT PROTEIN GP52; COAT PROTEIN GP36]
4127	14027		9.77	2.0E-03	U08491.1	NT	Rattus norvegicus 5-hydroxytryptamine ¹ receptor gene, partial cds
4446	14340	24130	1.93	2.0E-03	L42512.1	NT	Drosophila melanogaster shortighted class 2 (shs) mRNA, complete cds
4446	14340	24131	1.93	2.0E-03	L42512.1	NT	Drosophila melanogaster shortighted class 2 (shs) mRNA, complete cds
4608	14496	24285	0.94	2.0E-03	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
4612	14500		1.7	2.0E-03	R87773.1	EST_HUMAN	yc45e02.s1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:180890 3'
5077	14947		0.82	2.0E-03	AJ245167.1	NT	Camelus dromedarius cvhp19 gene for immunoglobulin heavy chain variable region
5194	15057	24820	1.04	2.0E-03	AY005150.1	NT	Homo sapiens extracellular glycoprotein lactoferrin precursor, gene, complete cds
5194	15057	24821	1.04	2.0E-03	AY005150.1	NT	Homo sapiens extracellular glycoprotein lactoferrin precursor, gene, complete cds

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5372	15292	25128	1.37	2.0E-03	BF241410.1	EST_HUMAN	601876385F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4104692 5'
5457	19445	25438	1.76	2.0E-03	AB014593.1	NT	Homo sapiens mRNA for KIAA0693 protein, partial cds
5501	15420	25482	1.87	2.0E-03	U63711.1	NT	Xeropus laevis xefitin mRNA, complete cds
5716	18624	25725	3.25	2.0E-03	P23477	SWISSPROT	ATP-DEPENDENT NUCLEASE SUBUNIT B
5716	18624	25726	3.25	2.0E-03	P23477	SWISSPROT	ATP-DEPENDENT NUCLEASE SUBUNIT B
5829	15735	25846	1.82	2.0E-03	Q95203	SWISSPROT	CARBONIC ANHYDRASE-RELATED PROTEIN 2 PRECURSOR (CARP 2) (CA-XI)
5829	15735	25847	1.82	2.0E-03	Q95203	SWISSPROT	CARBONIC ANHYDRASE-RELATED PROTEIN 2 PRECURSOR (CARP 2) (CA-XI)
5831	15737	25849	7.14	2.0E-03	BF308187.1	EST_HUMAN	601857434F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4121408 5'
5860	15756	25874	2.2	2.0E-03	Q9UKP4	SWISSPROT	ADAM-TS 7 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 7) (ADAMTS-7) (ADAM-TS7)
5861	15767	25886	1.95	2.0E-03	X94451.1	NT	L. esculentum mRNA for lysyl-tRNA synthetase (LysRS)
5979	15884		1.36	2.0E-03	A1991089.1	EST_HUMAN	wu36109.x1 Soares Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2522177 3' similar to SW:RL29_HUMAN P47914 60S RIBOSOMAL PROTEIN L29 ; contains element MSR1 repetitive element ;
6212	15994	26129	2.88	2.0E-03	BE067986.1	EST_HUMAN	OM4-BT0366-061299-054-d01 BT0366 Homo sapiens cDNA
6691	16571	26763	2.11	2.0E-03	AW592004.1	EST_HUMAN	ht37b06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2634035 3' similar to TR:Q60976 Q60976 JERKY. ;
6784	16663	26853	5.19	2.0E-03	N20287.1	EST_HUMAN	yx42g06.s1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:2644442 3' similar to contains L1.b2 L1 repetitive element ;
6784	16663	26854	5.19	2.0E-03	N20287.1	EST_HUMAN	yx42g06.s1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:2644442 3' similar to contains L1.b2 L1 repetitive element ;
7513	17301	27508	3.12	2.0E-03	P24821	SWISSPROT	TENASCIN PRECURSOR (TN) (HEXABRACHION) (CYTOTACTIN) (NEURONECTIN) (GVMEM) (JI) (MOTENDINOUS ANTIGEN) (GLIOMA-ASSOCIATED-EXTRACELLULAR MATRIX ANTIGEN) (GP 150-225) (TENASCIN-C) (TN-C)
7775	17625		5.41	2.0E-03	AA251376.1	EST_HUMAN	zs10a06.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:684754 3'
8379	18256		2.78	2.0E-03	M86524.1	NT	Human dystrophin gene
8779	16350	26520	1.78	2.0E-03	P07354	SWISSPROT	PROTEOGLYCAN LINK PROTEIN PRECURSOR (CARTILAGE LINK PROTEIN) (LP)
8829	18642		1.77	2.0E-03	BF330909.1	EST_HUMAN	RC3-BT0333-310800-115-g04 BT0333 Homo sapiens cDNA
8836	18649	28936	12.17	2.0E-03	Z11740.1	NT	H.sapiens variable number tandem repeat (VNTR) locus DNA
9052	18835		2.07	2.0E-03	A1625745.1	EST_HUMAN	ly65h03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2283989 3' similar to SW:VATG_MANSE Q25592 VACUOLAR ATP SYNTHASE SUBUNIT G ;
9066	18847	29115	2.88	2.0E-03	AF157516.2	NT	Homo sapiens SEL1L (SEL1L) gene, partial cds
9113	14947		4.48	2.0E-03	AJ245167.1	NT	Camelus dromedarius cvhpl9 gene for immunoglobulin heavy chain variable region
9322	19703		2.76	2.0E-03	AV697966.1	EST_HUMAN	AV697966 GKCC Homo sapiens cDNA clone GKCGXD05 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9414	19066	25278	1.59	2.0E-03	Y00508.1	NT	H. sapiens M1 gene for muscarinic acetylcholine receptor
9455	19087		9.62	2.0E-03	D84278.1	NT	Human DNA for CD38, exon 1
9525	19134		2.92	2.0E-03	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
9582	19569		1.57	2.0E-03	AI375037.1	EST_HUMAN	ta66f02.x1 Soares_lodal_fetus Nb2HF8_9w Homo sapiens cDNA clone IMAGE:2049051 3' similar to contains Alu repetitive element;
9696	19247		1.27	2.0E-03	AF129756.1	NT	Homo sapiens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G5b, G6d, G6e, G6f, BAT5, G5b, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and LTA genes, complete cds
9856	19521		1.66	2.0E-03	AV697966.1	EST_HUMAN	AV697966 GKC Homo sapiens cDNA clone GKCGXD05 5'
432	10377	20198	1.38	1.0E-03	H96471.1	EST_HUMAN	y98c08.1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:232334 5'
812	10740	20587	2.38	1.0E-03	A1720263.1	EST_HUMAN	as70b08.x1 Barslead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR:Q13825
812	10740	20588	2.38	1.0E-03	A1720263.1	EST_HUMAN	as70b08.x1 Barslead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR:Q13825
1079	10995	20836	2.14	1.0E-03	A1865788.1	EST_HUMAN	Q13825 AU-BINDING PROTEIN/ENYOYL-COA HYDRATASE.;
1099	11015	20857	1.44	1.0E-03	A1954572.1	EST_HUMAN	wk86a06.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2422289 3'
1150	11063	20906	1.45	1.0E-03	A1692616.1	EST_HUMAN	wx83ef10.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:2551242 3'
1982	11875	21768	3.61	1.0E-03	P47808	SWISSPROT	wd86a01.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2338440 3' similar to contains Alu repetitive element;
2108	11997	21896	8.02	1.0E-03	AJ131016.1	NT	Homo sapiens SCL gene locus
2951	12878	22876	1.15	1.0E-03	AB033117.1	NT	Homo sapiens mRNA for KIAA1291 protein, partial cds
3154	13079	22879	2.26	1.0E-03	P18915	SWISSPROT	HIGH MOLECULAR WEIGHT FORM OF MYOSIN I (HMMWI)
3154	13079	22880	2.26	1.0E-03	P18915	SWISSPROT	CARBONIC ANHYDRASE VI PRECURSOR (CARBONATE DEHYDRATASE VI) (CA-VI) (SECRETED)
3262	13185	22984	1.16	1.0E-03	P08547	SWISSPROT	CARBONIC ANHYDRASE (SALIVARY CARBONIC ANHYDRASE)
3496	13413	23218	0.79	1.0E-03	U68081.1	NT	CARBONIC ANHYDRASE VI PRECURSOR (CARBONATE DEHYDRATASE VI) (CA-VI) (SECRETED)
3496	13413	23219	0.79	1.0E-03	U68081.1	NT	CARBONIC ANHYDRASE (SALIVARY CARBONIC ANHYDRASE)
3614	13528		1.24	1.0E-03	AB044400.1	NT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
3855	13766	23559	1.02	1.0E-03	Z49649.1	NT	Human MUC2 gene, promoter region
4334	14231	24013	3.54	1.0E-03	BE939162.1	EST_HUMAN	Human MUC2 gene, promoter region
4377	14273	24054	3.77	1.0E-03	BE246536.1	EST_HUMAN	Homo sapiens SVMT gene for synaptic vesicle monoamine transporter, exons 14, 15
4564	14456	24244	0.87	1.0E-03	U29449.1	NT	S.cerevisiae chromosome X reading frame ORF YJR149w
							RC1-TN0128-160800-021-g01 TN0128 Homo sapiens cDNA
							TCBAP-ID4909 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4909
							Caenorhabditis elegans spliced leader RNA (SL3 alpha), (SL4), and (SL5) genes

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4717	14603	24388	1.78	1.0E-03	A1073485.1	EST_HUMAN	ov45c04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1640262 3'
4717	14603	24389	1.78	1.0E-03	A1073485.1	EST_HUMAN	ov45c04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1640262 3'
4718	14604		6.23	1.0E-03	BE154067.1	EST_HUMAN	PMO-HT0339-200400-010-D02 HT0339 Homo sapiens cDNA
5009	14883	24649	16.98	1.0E-03	O46409	SWISSPROT	APOLIPOPROTEIN A-IV PRECURSOR (APO-AIV)
5103	14971	24747	0.93	1.0E-03	AV685870.1	EST_HUMAN	AV685870 GKG Homo sapiens cDNA clone GKCDME11 5'
5250	15173	24946	2.03	1.0E-03	AA290951.1	EST_HUMAN	zs44f01.t1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:700345 5'
5317	15238	25042	3.06	1.0E-03	AJ006345.1	NT	Homo sapiens KVLQ11 gene
5349	15269	25096	2.01	1.0E-03	K03332.1	NT	Epstein-Barr virus (AG876 isolate) U2-IR2 domain encoding nuclear protein EBNA2, complete cds
5349	15269	25097	2.01	1.0E-03	K03332.1	NT	Epstein-Barr virus (AG876 isolate) U2-IR2 domain encoding nuclear protein EBNA2, complete cds
5423	15344	26397	1.89	1.0E-03	Q02388	SWISSPROT	COLLAGEN ALPHA 1(VII) CHAIN PRECURSOR (LONG-CHAIN COLLAGEN) (LC COLLAGEN)
5636	15577		4.08	1.0E-03	X07699.1	NT	Mouse nucleolin gene
5758	15666		8.56	1.0E-03	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
5824	15730	26842	1.32	1.0E-03	T87761.1	EST_HUMAN	yd93a11.t1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:115772 5'
5857	15763		1.4	1.0E-03	AW902595.1	EST_HUMAN	QV3-NN1024-260400-171-g05 NN1024 Homo sapiens cDNA
6242	16108	26259	2.4	1.0E-03	D16826.1	NT	Human gene for fourth somatostatin receptor subtype
6419	16281		1.37	1.0E-03	AJ225042.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 2/3
							Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
6503	16362	26537	1.63	1.0E-03	U62111.2	NT	Human TRPM-2 protein gene, exons 1,2 and 3
6536	16394	26573	3.13	1.0E-03	M63376.1	NT	Homo sapiens partial steerin-1 gene
6636	16516	26707	5.35	1.0E-03	AJ251973.1	NT	Homo sapiens exostosin-like protein 1 (EXTL1) gene, exons 2 through 11, and complete cds
6798	16677	26867	2.39	1.0E-03	AF153980.1	NT	V.carteri gene encoding volvoxopsin
7175	17052		1.4	1.0E-03	Y11204.1	NT	Human class III alcohol dehydrogenase (ADH5) chi subunit mRNA, complete cds
7273	17150	27345	4.27	1.0E-03	M30471.1	NT	Human class III alcohol dehydrogenase (ADH5) chi subunit mRNA, complete cds
7273	17150	27346	4.27	1.0E-03	M30471.1	NT	Human class III alcohol dehydrogenase (ADH5) chi subunit mRNA, complete cds
7541	17392	27602	1.85	1.0E-03	AF011400.1	NT	Thermotoga neapolitana alpha-1,6-galactosidase (agA) gene, complete cds
7541	17392	27603	1.85	1.0E-03	AF011400.1	NT	Thermotoga neapolitana alpha-1,6-galactosidase (agA) gene, complete cds
8036	17947	28196	22.37	1.0E-03	AW362393.1	EST_HUMAN	RC1-CT0279-181099-011-a09 CT0279 Homo sapiens cDNA
8036	17947	28197	22.37	1.0E-03	AW362393.1	EST_HUMAN	RC1-CT0279-181099-011-a09 CT0279 Homo sapiens cDNA
8133	18021	28268	2.44	1.0E-03	BE170859.1	EST_HUMAN	QV3-HT0543-220300-130-a03 HT0543 Homo sapiens cDNA
							tt73e12.t1 NCI_CGAP_HSC3 Homo sapiens cDNA clone IMAGE:2246446 3' similar to TR:Q26195 Q26195
8198	18083		2.69	1.0E-03	A1583847.1	EST_HUMAN	PVA1 GENE. ;
8497	18370		3.4	1.0E-03	AV759949.1	EST_HUMAN	AV759949 MDS Homo sapiens cDNA clone MDSDDF11 5'
9046	18831	29113	2.82	1.0E-03	BE694488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9491	19108	25287	1.95	1.0E-03	9507208	NT	Rattus norvegicus transformation related protein 63 (Trp63), mRNA
9517	19687		2.15	1.0E-03	A1347355.1	EST_HUMAN	tc05h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2063013 3' similar to contains Alu repetitive element;
9626	19707	24904	4.2	1.0E-03	BE780572.1	EST_HUMAN	601488878F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872035 5'
5131	14998	24769	0.81	9.0E-04	L11910.1	NT	Human retinoblastoma susceptibility gene exons 1-27, complete cds
5485	15404		1.56	9.0E-04	P06727	SWISSPROT	APOLIPOPROTEIN A-IV PRECURSOR (APO-AIV)
7561	17412		1.42	9.0E-04	AB037203.1	NT	Glycyrrhiza glabra GgbAS1 mRNA for beta-amyrin synthase, complete cds
1472	11377		1.39	8.0E-04	X66489.1	NT	Xlaevis mRNA for C4SR protein
3843	13754	23548	1.27	8.0E-04	R07008.1	EST_HUMAN	yf12h10.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:126691 5'
4089	13989		4.2	8.0E-04	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
4656	14542	24332	2.39	8.0E-04	U29185.1	NT	Homo sapiens prion protein (PrP) gene, complete cds
8485	18358		2.08	8.0E-04	AA777084.1	EST_HUMAN	z124c10.s1 Scores fetal heart NbhH19W Homo sapiens cDNA clone IMAGE:377874 3'
8616	18483		2.16	8.0E-04	A1571099.1	EST_HUMAN	tn85a08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2176310 3'
1786	11684	21562	1.61	7.0E-04	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
2350	12230	22127	1.13	7.0E-04	U29185.1	NT	Homo sapiens prion protein (PrP) gene, complete cds
2682	12547	22437	3.26	7.0E-04	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3243	13166	22965	1.03	7.0E-04	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
5923	15828		2.24	7.0E-04	A1769331.1	EST_HUMAN	wg36f09.x1 Scores NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2367209 3'
8851	18683		3.2	7.0E-04	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
8871	18683	28973	2.61	7.0E-04	Z40561.1	EST_HUMAN	HSC28A072 normalized infant brain cDNA Homo sapiens cDNA clone c-28a07 3'
9558	19155		3.29	7.0E-04	BE077941.1	EST_HUMAN	GM1-BT0614-110300-142-b12 BT0614 Homo sapiens cDNA
9790	19300		2.72	7.0E-04	R17336.1	EST_HUMAN	ygt3c06.r1 Scores infant brain 1NIB Homo sapiens cDNA clone IMAGE:32298 5'
9813	19321		3.28	7.0E-04	6005855	NT	Homo sapiens Refina-derived POU-domain factor-1 (RPF-1), mRNA
3877	13788	23576	1.34	6.0E-04	A1862525.1	EST_HUMAN	wf15a11.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2402876 3'
3999	13905	23680	0.85	6.0E-04	K01315.1	NT	Homo sapiens epsilon-1 pseudogene (IGHEP1) gene, 5' flanking region
3999	13905	23681	0.85	6.0E-04	K01315.1	NT	Homo sapiens epsilon-1 pseudogene (IGHEP1) gene, 5' flanking region
4092	13992	23769	3.28	6.0E-04	U45983.1	NT	Homo sapiens CCR8 chemokine receptor (CMKBR8) gene, complete cds
6590	18470		4.35	6.0E-04	P46408	SWISSPROT	GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE (FRUCTOSE TRANSPORTER)
7733	17583		3.13	6.0E-04	AL048507.2	EST_HUMAN	DKFZp586M2024_r1 586 (synonym: hutet) Homo sapiens cDNA clone DKFZp586M2024
7800	17650	27887	2.24	6.0E-04	BE005850.1	EST_HUMAN	RC2-BN0120-250400-012-h11 BN0120 Homo sapiens cDNA
8776	18593	28881	2.07	6.0E-04	AJ229042.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 2/3
8852	18664	28960	6.32	6.0E-04	AW013847.1	EST_HUMAN	UI-H-B10-aab-e-09-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2708825 3'
8906	18714		2.45	6.0E-04	Q01768	SWISSPROT	NUCLEOSIDE DIPHOSPHATE KINASE B (NDK B) (NDP KINASE B) (NM23-M2) (P18)

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9225	19598		2.26	6.0E-04	AW380519.1	EST_HUMAN	RC1-HT0269-261199-012-408 HT0269 Homo sapiens cDNA
9968	19421	25170	1.49	6.0E-04	11418157	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA
635	10572	20385	5.82	5.0E-04	O10341	SWISSPROT	HYPOTHETICAL 29.3 KD PROTEIN (ORF92)
1485	11390		1.83	5.0E-04	AW851844.1	EST_HUMAN	QV0-CT0225-021099-030-407 CT0225 Homo sapiens cDNA
3367	13286	23085	1.42	5.0E-04	AA548931.1	EST_HUMAN	nk27e11.s1 NCI_CGAP_Co11 Homo sapiens cDNA clone IMAGE:1014764 3' similar to contains Alu repetitive element
5361	15281	25113	2.19	5.0E-04	AF248054.1	NT	Bos taurus micromolar calcium activated neutral protease 1 (CAPN1) gene, exons 11-20, and partial cds
5996	15901	26026	5.72	5.0E-04	AA155080.1	EST_HUMAN	zo33b08.r1 Strategene colon (#937204) Homo sapiens cDNA clone IMAGE:588663 5'
6364	16227	26387	13.6	5.0E-04	M23604.1	NT	Gorilla gorilla involucrin gene medium allele, complete cds
6639	16519	26710	5.57	5.0E-04	A1188382.1	EST_HUMAN	qd13f06.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1723619 3' similar to gb:X51602_cds1 VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR 1 (HUMAN); contains Alu repetitive element;
7345	17213	27412	1.45	5.0E-04	AA846545.1	EST_HUMAN	aj59f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1394357 3'
7543	17394	27606	4.69	5.0E-04	AW270938.1	EST_HUMAN	xs06e02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2768858 3'
8343	18220		4.17	5.0E-04	AL048507.2	EST_HUMAN	DKFZp566M2024_r1 588 (synonym: hute1) Homo sapiens cDNA clone DKFZp566M2024
8950	15281	25113	17.6	5.0E-04	AF248054.1	NT	Bos taurus micromolar calcium activated neutral protease 1 (CAPN1) gene, exons 11-20, and partial cds
9164	19530		2.27	5.0E-04	AA568513.1	EST_HUMAN	nr15n02.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:913875
9944	19413		1.46	5.0E-04	AW241666.1	EST_HUMAN	xm77h09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2690273 3'
386	10333		1.13	4.0E-04	BF241482.1	EST_HUMAN	801876334F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4104897 5'
657	10592	20410	1.42	4.0E-04	U82748.1	NT	Haemophilus influenzae Rd section 63 of 163 of the complete genome
829	10756	20606	1.57	4.0E-04	A1720263.1	EST_HUMAN	as70b08.x1 Barslead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR:Q13825
829	10756	20607	1.57	4.0E-04	A1720263.1	EST_HUMAN	Q13825 AU-BINDING PROTEIN/ENOVYL-COA HYDRATASE. ;
1449	11354	21218	3.92	4.0E-04	AW753556.1	EST_HUMAN	as70b08.x1 Barslead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR:Q13825
2037	11928	21823	1.68	4.0E-04	AL163278.2	NT	Q13825 AU-BINDING PROTEIN/ENOVYL-COA HYDRATASE. ;
2086	11976		1.19	4.0E-04	AL046704.1	EST_HUMAN	RC3-CT0254-130100-023-f01 CT0254 Homo sapiens cDNA
2586	12457	22348	2.73	4.0E-04	O96615	SWISSPROT	Homo sapiens chromosome 21 segment HS21C078
3127	13052	22850	1.89	4.0E-04	AF281074.1	NT	DKFZp434D059_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D059 5'
3316	13237	23041	0.84	4.0E-04	AV696624.1	EST_HUMAN	SERPIN-2 (SILK GUM PROTEIN 2)
4228	14126	23900	2.75	4.0E-04	AA576331.1	EST_HUMAN	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
							AV696624 GKC Homo sapiens cDNA clone GKCFH07 5'
							nh10a10.s1 NCI_CGAP_Co1 Homo sapiens cDNA clone IMAGE:951930 3' similar to gb:M21121 T-CELL SPECIFIC RANTES PROTEIN PRECURSOR (HUMAN);

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4228	14126	23901	2.75	4.0E-04	AA576331.1	EST_HUMAN	nh10a10.s1 NCI_CGAP_Co1 Homo sapiens cDNA clone IMAGE:951930 3' similar to gb:M21121 T-CELL SPECIFIC RANTES PROTEIN PRECURSOR (HUMAN);
4437	14332	24121	1.28	4.0E-04	AA086324.1	EST_HUMAN	zn161c08.s1 Striatagene muscle 937209 Homo sapiens cDNA clone IMAGE:562670 3'
5020	14893	24661	3.72	4.0E-04	BE560660.1	EST_HUMAN	601348895f1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3678910 5'
5132	14999	24770	0.9	4.0E-04	N48313.1	EST_HUMAN	yy78b10.s1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:279643 3' similar to contains Alu repetitive element;
6972	16849	27040	1.62	4.0E-04	N25507.1	EST_HUMAN	yx39e12.r1 Soares_melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:264142 5'
7588	17439	27655	2.79	4.0E-04	AI025999.1	EST_HUMAN	ov87h03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1644341 3'
7662	17512		1.44	4.0E-04	AF022855.1	NT	Mus musculus neuropeptide-2(a17) mRNA, alternatively spliced, complete cds
9526	19505		1.52	4.0E-04	AF254822.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
9677	19479		1.84	4.0E-04	Q05880	SWISSPROT	FORMIN (LIMB DEFORMITY PROTEIN)
150	10124	19942	3.04	3.0E-04	AL119426.1	EST_HUMAN	DKFZp761J221_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761J221 5'
188	10160	19977	2.22	3.0E-04	P49259	SWISSPROT	180 KD SECRETORY PHOSPHOLIPASE A2 RECEPTOR PRECURSOR (PLA2-R)
862	10788	20639	1.27	3.0E-04	J83991.1	NT	Human short chain acyl CoA dehydrogenase gene, exons 1 and 2
1810	11707		1.16	3.0E-04	AI939874.1	EST_HUMAN	th23a02.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2119082 3'
3268	13190	22988	3.37	3.0E-04	P25147	SWISSPROT	INTERNALIN B PRECURSOR
3682	13793	23581	3.63	3.0E-04	P49448	SWISSPROT	GLUTAMATE DEHYDROGENASE 2 PRECURSOR (GDH)
3959	13876		1.18	3.0E-04	AJ271735.1	NT	Homo sapiens Xq pseudoautosomal region; segment 1/2
4711	14597		4.5	3.0E-04	BE153778.1	EST_HUMAN	PM0-HT0339-190200-007-g12 HT0339 Homo sapiens cDNA
4784	14669	24456	0.85	3.0E-04	AW937723.1	EST_HUMAN	QV3-DT0045-221299-046-d09 DT0045 Homo sapiens cDNA
5052	14924		1.34	3.0E-04	Y11204.1	NT	V. carteri gene encoding valoxopsin
5735	15643		4.82	3.0E-04	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
6081	16026	26166	5.88	3.0E-04	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
6806	16885	26875	3.49	3.0E-04	P22607	SWISSPROT	FIBROBLAST GROWTH FACTOR RECEPTOR 3 PRECURSOR (FGFR-3)
7705	17565	27780	1.42	3.0E-04	AA454055.1	EST_HUMAN	zx48d08.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:795471 5' similar to gb:M62762 VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT (HUMAN);
7977	17827	28068	3.66	3.0E-04	AA781201.1	EST_HUMAN	aj24g05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391288 3' similar to gb:M36072 60S RIBOSOMAL PROTEIN L7A (HUMAN);
9118	19726	24908	2.33	3.0E-04	AA228301.1	EST_HUMAN	nc38e04.r1 NCI_CGAP_P22 Homo sapiens cDNA clone IMAGE:1010430 similar to contains L1:12 L1 repetitive element;
9483	19576	25068	4.32	3.0E-04	AB018292.1	NT	Homo sapiens mRNA for KIAA0749 protein, partial cds
9874	19361		2.01	3.0E-04	AL134483.1	EST_HUMAN	DKFZp547L185_r1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547L185 5'
169	10141	19957	1.18	2.0E-04	AF217796.1	NT	Homo sapiens SCG10 like-protein, helicase-like protein NHL, M68, and ADP-ribosylation factor related protein 1 (ARFRP1) genes, complete cds

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
470	10413	20232	2.15	2.0E-04	AU146707.1	EST_HUMAN	AU146707 HEMBB1 Homo sapiens cDNA clone HEMBB1001253 3'
889	10815	20663	4.49	2.0E-04	M86524.1	NT	Human dystrophin gene
889	10815	20694	4.49	2.0E-04	M86524.1	NT	Human dystrophin gene
1162	11075		4	2.0E-04	AI286021.1	EST_HUMAN	qh98e11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1855052 3' similar to contains MER3.b2 MER3 repetitive element;
1169	11081		1.99	2.0E-04	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1791	11889		1.44	2.0E-04	AF224268.1	NT	Mus musculus 5' flanking region of Pitx3 gene
2136	12024		1.29	2.0E-04	AA478980.1	EST_HUMAN	zu39b05.s1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:740337 3' similar to contains Alu repetitive element;
2528	12402	22293	4.15	2.0E-04	U68061.1	NT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV29S1P, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2,>
2858	12885	22693	1	2.0E-04	AI124529.1	EST_HUMAN	am58c09.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1639760 3'
3389	13307	23105	2.53	2.0E-04	BE082317.1	EST_HUMAN	QV2.BT0636-070500-194-b07 BT0636 Homo sapiens cDNA
3417	13334	23138	0.98	2.0E-04	U34374.1	NT	Human tyrosine kinase TXK (tk) gene, exons 9 and 10
3637	13748	23541	0.78	2.0E-04	AW978441.1	EST_HUMAN	EST390550 IMAGE resequences, MAGP Homo sapiens cDNA
4051	13953		4.61	2.0E-04	U01029.1	NT	Phaseolus vulgaris nitrate reductase (PVNR2) gene, complete cds
4569	14461	24249	1.27	2.0E-04	H96265.1	EST_HUMAN	yu01et1.1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:232556 5'
4569	14461	24250	1.27	2.0E-04	H96265.1	EST_HUMAN	yu01et1.1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:232556 5'
4689	14575		1.31	2.0E-04	U09226.1	NT	Gallus gallus proteasome 28 kDa subunit homolog mRNA, complete cds
4991	14866	24630	1.7	2.0E-04	AB037997.1	NT	Danio rerio hagaromo gene, exons 1 to 6, partial cds
5403	15322	25371	1.63	2.0E-04	AV654352.1	EST_HUMAN	AV654352 GLC Homo sapiens cDNA clone GLCDUH10 3'
5411	15331	25381	1.68	2.0E-04	AI690882.1	EST_HUMAN	tq03b11.x1 NCI_CGAP_U03 Homo sapiens cDNA clone IMAGE:2207709 3'
6291	16155		2.5	2.0E-04	AU121712.1	EST_HUMAN	AU121712 MAMMA1 Homo sapiens cDNA clone MAMMA1000798 5'
6493	16352		11.07	2.0E-04	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
6497	16356	26527	1.6	2.0E-04	P54296	SWISSPROT	MYOMESIN 2 (M-PROTEIN) (165 KD TITIN-ASSOCIATED PROTEIN) (165 KD CONNECTIN- ASSOCIATED PROTEIN)
6538	16518	26708	1.33	2.0E-04	U32444.2	NT	Solanum lycopersicum phytochrome F (PHYF) gene, partial cds
6538	16518	26709	1.33	2.0E-04	U32444.2	NT	Solanum lycopersicum phytochrome F (PHYF) gene, partial cds
6919	16698	26890	1.19	2.0E-04	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
6919	16698	26891	1.19	2.0E-04	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)

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Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6982	16859	27054	2.29	2.0E-04	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5
7729	17579	27801	1.46	2.0E-04	BE149303.1	EST_HUMAN	RC3-HT0254-151099-011-b05 HT0254 Homo sapiens cDNA
7754	17604	27828	1.71	2.0E-04	AA405777.1	EST_HUMAN	zu66c11.1 Scieris_testis_NHT Homo sapiens cDNA clone IMAGE:742964 5'
8225	18107	28360	6.14	2.0E-04	AV730373.1	EST_HUMAN	AV730373 HTF Homo sapiens cDNA clone HTFAA01 5'
8515	18387		1.88	2.0E-04	AJ243213.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
8625	18490	28762	5.57	2.0E-04	AI440282.1	EST_HUMAN	ij01f11.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2140269 3' similar to contains Alu repetitive element;
8726	18582	28866	2.94	2.0E-04	AW136740.1	EST_HUMAN	UI-H-B11-adm-c-04-0-UJ.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717190 3'
750	10680	20516	0.98	1.0E-04	H99646.1	EST_HUMAN	yx26c09.s1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:262864 3' similar to contains L1.1 L1 repetitive element;
1059	10976	20819	2.43	1.0E-04	P11389	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
1098	11014	20855	3.87	1.0E-04	AW013847.1	EST_HUMAN	UI-H-B10-aab-e-09-0-UJ.s1 NCL_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2708825 3'
1098	11014	20856	3.87	1.0E-04	AW013847.1	EST_HUMAN	UI-H-B10-aab-e-09-0-UJ.s1 NCL_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2708825 3'
1310	11216		2.97	1.0E-04	U62918.1	NT	Anguilla anguilla dopamine D1A1 receptor (d1A1) gene, complete cds
1610	11515	21374	3.24	1.0E-04	AF148805.1	NT	Kaposi's sarcoma-associated herpesvirus ORF 68 gene, partial cds; and ORF 69, kaposin, v-FLIP, v-cyclin, latent nuclear antigen, ORF K14, v-GPCR, putative phosphoribosylformylglycinamide synthase, and LAMP (LAMP) genes, complete cds
1610	11515	21375	3.24	1.0E-04	AF148805.1	NT	Kaposi's sarcoma-associated herpesvirus ORF 68 gene, partial cds; and ORF 69, kaposin, v-FLIP, v-cyclin, latent nuclear antigen, ORF K14, v-GPCR, putative phosphoribosylformylglycinamide synthase, and LAMP (LAMP) genes, complete cds
1817	11714	21594	1.67	1.0E-04	AB048342.1	NT	Equus caballus DNA, chromosome 24q14, microsatellite TKY36
2800	12469	22363	1.29	1.0E-04	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
2800	12469	22384	1.29	1.0E-04	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
2655	12522	22411	1.15	1.0E-04	BE218833.1	EST_HUMAN	h45c08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3176366 3'
2655	12522	22412	1.15	1.0E-04	BE218833.1	EST_HUMAN	h45c08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3176366 3'
3247	13170	22969	1.04	1.0E-04	Q62203	SWISSPROT	SPLICEOSOME ASSOCIATED PROTEIN 62 (SAP 62) (SPLICING FACTOR 3A SUBUNIT 2) (SF3A66)
3675	13589	23376	1.1	1.0E-04	AI440282.1	EST_HUMAN	ij01f11.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2140269 3' similar to contains Alu repetitive element;
3971	13878	23654	1.78	1.0E-04	M14042.1	NT	Mouse alpha 1 type-IV collagen mRNA
3991	13898	23675	1.08	1.0E-04	AV647727.1	EST_HUMAN	AV647727 GLC Homo sapiens cDNA clone GLCBB04 3'
4362	14258	24043	0.85	1.0E-04	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
5028	14901	24671	1.56	1.0E-04	7662015	NT	Homo sapiens KIA0237 gene product (KIA0237), mRNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5028	14901	24672	1.56	1.0E-04	7662015	NT	Homo sapiens KIAA0237 gene product (KIAA0237), mRNA
5033	14905	24676	0.99	1.0E-04	AI357156.1	EST_HUMAN	qx82h04.x1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:2005975 3'
5148	15015		0.9	1.0E-04	Z72560.1	NT	S.cerevisiae chromosome VII reading frame ORF YGL038c
5572	15487	25593	1.36	1.0E-04	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
6264	16129	26283	12.77	1.0E-04	AI251980.1	EST_HUMAN	qv57d10.x1 NCI_CGAP_Ov32 Homo sapiens cDNA clone IMAGE:1985683 3'
6468	16129	26283	14.47	1.0E-04	AI251980.1	EST_HUMAN	qv57d10.x1 NCI_CGAP_Ov32 Homo sapiens cDNA clone IMAGE:1985683 3'
7380	17249	27455	2.53	1.0E-04	AI806220.1	EST_HUMAN	wf26e08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356742 3'
7384	17263	27458	1.46	1.0E-04	O88969	SWISSPROT	CYSTATIN-RELATED EPIDIDYMAL SPERMATOGENIC PROTEIN PRECURSOR (CYSTATIN 8)
7562	17413	27628	1.75	1.0E-04	10863876	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
7848	17698		3	1.0E-04	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
8049	18513		2.17	1.0E-04	M28587.1	NT	Mouse alpha leukocyte interferon gene, complete cds
8913	18721	29012	1.98	1.0E-04	AB032968.1	NT	Homo sapiens mRNA for KIAA1142 protein, partial cds
9035	18824		1.84	1.0E-04	BE696769.1	EST_HUMAN	CM0-CT0404-130700-475-h03 CT0404 Homo sapiens cDNA
9366	19158		1.65	1.0E-04	AW893325.1	EST_HUMAN	CM2-NN0010-220300-124-408 NN0010 Homo sapiens cDNA
983	10616	20439	1.7	9.0E-05	AA718933.1	EST_HUMAN	ah45c11.s1 Soares_testis_NHT Homo sapiens cDNA clone 1292468 3'
3995	13902	23678	0.8	9.0E-05	AI762209.1	EST_HUMAN	wf54c11.x1 NCI_CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2394068 3' similar to contains MER6.1
5928	15543	25632	1.47	9.0E-05	Q60716	SWISSPROT	MER6 repetitive element ;
7455	17264		2.9	9.0E-05	D85606.1	NT	PROLYL 4-HYDROXYLASE ALPHA-2 SUBUNIT PRECURSOR
7457	17266	27470	2.93	9.0E-05	AF120982.1	NT	Homo sapiens gene for cholecystokinin type-A receptor, complete cds
8479	18352	28617	2.6	9.0E-05	AW073078.1	EST_HUMAN	Homo sapiens methyl-CpG binding protein 1 (MBD1) gene, exon 15b
8568	18436	28705	1.85	9.0E-05	AI287878.1	EST_HUMAN	xa34g05.x1 NCI_CGAP_Br18 Homo sapiens cDNA clone IMAGE:2568728 3' similar to contains L1.f2 L1
8990	15543	25632	4.4	9.0E-05	Q60716	SWISSPROT	repetitive element ;
						EST_HUMAN	qv23f06.x1 NCI_CGAP_Lym6 Homo sapiens cDNA clone IMAGE:1982435 3' similar to contains element
						SWISSPROT	MIR repetitive element ;
						SWISSPROT	PROLYL 4-HYDROXYLASE ALPHA-2 SUBUNIT PRECURSOR
9329	19608		4.17	9.0E-05	AF129756.1	NT	Homo sapiens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G5b, G6d, G6e, G6f, BAT5, G5b, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and LTA genes, complete cds
904	10733	20576	1.46	8.0E-05	AJ251646.1	NT	Pisum sativum mRNA for beta-1,3 glucanase (gns2 gene)
846	10773		3.53	8.0E-05	AJ251646.1	NT	Pisum sativum mRNA for beta-1,3 glucanase (gns2 gene)
2920	12847		0.78	8.0E-05	M83575.1	NT	Human platelet-derived growth factor A chain (PDGFA) gene, exons only
4852	15080		1.15	8.0E-05	F28172.1	EST_HUMAN	HSPD16734 HM3 Homo sapiens cDNA clone s3000003H04
8491	18364	28630	1.87	8.0E-05	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9911	19589		3.45	8.0E-05	AA279333.1	EST_HUMAN	zs88h01.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:704593 3' similar to contains Alu repetitive element; contains element MSF1 repetitive element;
344	10303	20118	2.9	7.0E-05	AW847445.1	EST_HUMAN	RC3-CT0208-220999-011-E04 CT0208 Homo sapiens cDNA
344	10303	20119	2.9	7.0E-05	AW847445.1	EST_HUMAN	RC3-CT0208-220999-011-E04 CT0208 Homo sapiens cDNA
555	10496	20302	1.05	7.0E-05	L49075.1	EST_HUMAN	HUM072014F Human fovea cDNA Homo sapiens cDNA clone EST HFD072014
555	10496	20303	1.05	7.0E-05	L49075.1	EST_HUMAN	HUM072014F Human fovea cDNA Homo sapiens cDNA clone EST HFD072014
							PROBABLE GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR (GPAT)
1039	10957	20800	2.32	7.0E-05	Q22949	SWISSPROT	Homo sapiens chromosome 21 segment HS21C078
2886	12551	22440	5.24	7.0E-05	AL163278.2	NT	Dicystostelium discoideum gene for TRFA, complete cds
3121	13046	22843	5.78	7.0E-05	AB009080.1	NT	Homo sapiens chromosome 21 segment HS21C001
4276	14175	23853	1.27	7.0E-05	AL163201.2	NT	Caenorhabditis elegans Skip1p homolog mRNA, complete cds
4344	14241	24023	0.82	7.0E-05	U60980.1	NT	Rat cytomegalovirus Maastricht, complete genome
4842	14723	24506	0.84	7.0E-05	9845300	NT	EST78713 Placenta I Homo sapiens cDNA
5202	15065		1.12	7.0E-05	AA367812.1	EST_HUMAN	EST04984 Fetal brain, Stragelene (cat#936206) Homo sapiens cDNA clone HFBED60
7508	17296	27505	3.04	7.0E-05	T07095.1	EST_HUMAN	Homo sapiens sarcoglycan, epsilon (SGCE), mRNA
8501	18374		2.89	7.0E-05	10835046	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
1981	11874	21766	1.57	6.0E-05	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
1981	11874	21767	1.57	6.0E-05	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
2544	12418	22309	1.42	6.0E-05	AI655241.1	EST_HUMAN	wb54h06.x1 NCL_CGAP_GCB6 Homo sapiens cDNA clone IMAGE:2309531 3' similar to gb.J03250 DNA TOPOISOMERASE I (HUMAN);
2652	12519	22409	0.89	6.0E-05	Z84506.1	NT	H.sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA28B10
2652	12519	22410	0.89	6.0E-05	Z84506.1	NT	H.sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA28B10
2783	10598	20415	2.45	6.0E-05	AF053630.1	NT	Homo sapiens monocyte/neutrophil elastase inhibitor gene, complete cds
5805	15519	25599	3.33	6.0E-05	Q12860	SWISSPROT	CONTACTIN PRECURSOR (GLYCOPROTEIN GPI35)
5805	15519	25600	3.33	6.0E-05	Q12860	SWISSPROT	CONTACTIN PRECURSOR (GLYCOPROTEIN GPI35)
5855	15761	25879	1.49	6.0E-05	N72829.1	EST_HUMAN	yv50g1.1 r1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:246212 5'
6918	16796	26869	2.61	6.0E-05	AW996629.1	EST_HUMAN	PM4-NN0050-310300-001-f10 NN0050 Homo sapiens cDNA
7330	17234	27437	1.37	6.0E-05	P08607	SWISSPROT	C4B-BINDING PROTEIN PRECURSOR (C4BP)
7330	17234	27438	1.37	6.0E-05	P08607	SWISSPROT	C4B-BINDING PROTEIN PRECURSOR (C4BP)
7484	17354	27558	1.28	6.0E-05	T94149.1	EST_HUMAN	ye28c12.r1 Stragelene lung (#937210) Homo sapiens cDNA clone IMAGE:119062 5'
8131	18019	28267	3.68	6.0E-05	R75639.1	EST_HUMAN	yf59d08.s1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:143535 3' similar to contains Alu repetitive element; contains LTR repetitive element;
8807	18621	28811	3.59	6.0E-05	AA044015.1	EST_HUMAN	zk58f02.r1 Soares pregnant uterus NbHPU Homo sapiens cDNA clone IMAGE:487035 5'
9534	19587	25073	8.44	6.0E-05	AW990110.1	EST_HUMAN	MR0-NT0038-250400-001-f09 NT0038 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9965	19427		1.54	6.0E-05	BE858403.1	EST_HUMAN	7g28a08.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3307766 3'
1382	11287	21141	14.37	5.0E-05	AW392086.1	EST_HUMAN	QV4-ST0234-241199-040-h11 S10234 Homo sapiens cDNA
1819	11716		1.63	5.0E-05	8923891	NT	Homo sapiens 22kDa peroxisomal membrane protein-like (LOC55896), mRNA
2831	12760	22550	0.88	5.0E-05	AJ251058.1	NT	Homo sapiens MEPIA gene, promoter region and exon 1
3997	13807	23593	2.99	5.0E-05	AJ251894.1	NT	Homo sapiens partial SLC22A3 gene for extraneuronal monoamine transporter (EMT), exon 1
5392	15311	25165	9.01	5.0E-05	X58855.1	NT	Human ML-C1 emb gene for embryonic myosin alkaline light chain, 3'UTR
5946	15559	25652	3.46	5.0E-05	AV653544.1	EST_HUMAN	AV653544 GLC Homo sapiens cDNA clone GLCDMA06 3'
9326	19173		2.96	5.0E-05	P49193	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
9590	19173		3.47	5.0E-05	P49193	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
2776	10193		4.58	4.0E-05	U12821.1	NT	Human renin (REN) gene, 5' flanking region
7486	17356		7.17	4.0E-05	AF202635.1	NT	Homo sapiens PP1200 mRNA, complete cds
8150	18038	28286	4.6	4.0E-05	AW627946.1	EST_HUMAN	hi36c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2974380 3' similar to contains element MIR repetitive element;
9287	18989		2.17	4.0E-05	AW117580.1	EST_HUMAN	xd83e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2605192 3'
665	10599	20417	0.84	3.0E-05	A1248061.1	EST_HUMAN	qh64c10.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849458 3' similar to contains Alu repetitive element; contains element KER repetitive element;
1043	10961	20804	1.36	3.0E-05	AW273851.1	EST_HUMAN	xv24g03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2814100 3'
1115	11030	20870	1.28	3.0E-05	BF037898.1	EST_HUMAN	601461463F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3865142 5'
1115	11030	20871	1.28	3.0E-05	BF037898.1	EST_HUMAN	601461463F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3865142 5'
2888	12553	22442	0.91	3.0E-05	Q62234	SWISSPROT	SKELEMIN
4285	14184	23964	6.89	3.0E-05	BE169211.1	EST_HUMAN	PM1-HT0521-120200-001-e10 HT0521 Homo sapiens cDNA
4285	14184	23965	6.89	3.0E-05	BE169211.1	EST_HUMAN	PM1-HT0521-120200-001-e10 HT0521 Homo sapiens cDNA
4365	14261	24045	1.19	3.0E-05	AA386678.1	EST_HUMAN	EST79996 Placenta Homo sapiens cDNA similar to similar to p53-associated protein
4365	14261	24046	1.19	3.0E-05	AA386678.1	EST_HUMAN	EST79996 Placenta Homo sapiens cDNA similar to similar to p53-associated protein
4519	14412	24197	0.85	3.0E-05	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4731	10599	20417	0.84	3.0E-05	A1248061.1	EST_HUMAN	qh64c10.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849458 3' similar to contains Alu repetitive element; contains element KER repetitive element;
5151	15018	24785	0.97	3.0E-05	AV726630.1	EST_HUMAN	AV726630 HTC Homo sapiens cDNA clone HTCC0A01 5'
5412	15332	26392	1.54	3.0E-05	11072102	NT	Mus musculus myosin light chain 2, precursor lymphocyte-specific (Mylc2pl), mRNA
6611	16491	26677	2.23	3.0E-05	BE733157.1	EST_HUMAN	601567451F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3842292 5'
6863	16742	26935	1.62	3.0E-05	AA284049.1	EST_HUMAN	zs00p05.s1 Sratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:701841 3'
7154	17031	27225	1.65	3.0E-05	AW770982.1	EST_HUMAN	hi94e08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3009638 3'
7158	17035	27226	1.5	3.0E-05	6912431	NT	Homo sapiens interleukin-1 receptor antagonist homolog 1 (IL1HY1), mRNA
7373	17242	27447	1.33	3.0E-05	AA372562.1	EST_HUMAN	EST84475 Cdon adenocarcinoma IV Homo sapiens cDNA 5' end

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7570	17421		3.15	3.0E-05	AI769331.1	EST_HUMAN	wg36f09.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2367209 3'
2276	12160	22058	1.76	2.0E-05	AI286021.1	EST_HUMAN	qh98e11.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1855052 3' similar to contains MER3.b2 MER3 repetitive element;
2538	12412	22302	3.02	2.0E-05	M13792.1	NT	Human adenosine deaminase (ADA) gene, complete cds
2681	12546		7.21	2.0E-05	AA160562.1	EST_HUMAN	zq46a12.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632734 5' similar to contains Alu repetitive element; contains element L1 repetitive element;
3098	13025	22821	1.5	2.0E-05	BE066036.1	EST_HUMAN	RC3-BT0319-120200-014-h08 BT0319 Homo sapiens cDNA
3304	13225	23027	0.94	2.0E-05	AF184614.1	NT	Homo sapiens p47-phox (NCF1) gene, complete cds
3323	13243	23050	1.14	2.0E-05	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
3449	13366		1	2.0E-05	X95465.1	NT	S. cerevisiae 12.8 Kbp fragment of the left arm of chromosome XV
3737	13649		0.85	2.0E-05	AL039107.1	EST_HUMAN	DKFZp6661064_r1 566 (synonym: hfd2) Homo sapiens cDNA clone DKFZp5661064 5'
4510	14403	24191	0.99	2.0E-05	AI263349.1	EST_HUMAN	qq13a08.x1 Soares_NhlMfP_u_S1 Homo sapiens cDNA clone IMAGE:1932374 3' similar to contains MER18.b3 MER18 repetitive element;
4592	14480		1.06	2.0E-05	BE378471.1	EST_HUMAN	601236455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608853 5'
4782	14686	24453	0.81	2.0E-05	AJ131016.1	NT	Homo sapiens SCL gene locus
5520	15438	25502	1.42	2.0E-05	AJ011712.1	NT	Homo sapiens TNNT1 gene, exons 1-11 (and joined CDS)
5993	15898	26022	2.19	2.0E-05	AA714330.1	EST_HUMAN	rw06d12.s1 NCL_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238519 3'
6125	15972	26108	2.19	2.0E-05	Y08926.1	NT	P.falciparum mRNA for AARP1 protein, partial
6136	15983		8.04	2.0E-05	AI991025.1	EST_HUMAN	wu35h07.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2522077 3'
6243	16109	26260	2.21	2.0E-05	AF224262.1	NT	Heterodontus francisci HoxA10 (HoxA10), HoxA9 (HoxA9), HoxA7 (HoxA7), HoxA6 (HoxA6), HoxA5 (HoxA5), HoxA4 (HoxA4), HoxA3 (HoxA3), HoxA2 (HoxA2), and HoxA1 (HoxA1) genes, complete cds
6243	16109	26261	2.21	2.0E-05	AF224262.1	NT	Heterodontus francisci HoxA10 (HoxA10), HoxA9 (HoxA9), HoxA7 (HoxA7), HoxA6 (HoxA6), HoxA5 (HoxA5), HoxA4 (HoxA4), HoxA3 (HoxA3), HoxA2 (HoxA2), and HoxA1 (HoxA1) genes, complete cds
6303	16483	26671	2.3	2.0E-05	AI381040.1	EST_HUMAN	tg20h05.x1 NCL_CGAP_GLL1 Homo sapiens cDNA clone IMAGE:2109369 3'
8024	17874	28116	2.45	2.0E-05	N41751.1	EST_HUMAN	yw91a06.r1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:259570 5'
8024	17874	28117	2.45	2.0E-05	N41751.1	EST_HUMAN	yw91a06.r1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:259570 5'
8039	15983		2.42	2.0E-05	AI991025.1	EST_HUMAN	wu35h07.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2522077 3'
8748	17897	28141	2.93	2.0E-05	BE175801.1	EST_HUMAN	RC5-HT0582-280300-012-E12 HT0582 Homo sapiens cDNA
9335	19514		2.98	2.0E-05	BE348229.1	EST_HUMAN	hw21a03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3183532 3' similar to TR:Q12832 Q12832 GLYCOPHORIN HEP2;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9442	19677		3.73	2.0E-05	AW074604.1	EST_HUMAN	xa89a03.x1 NCI_CGAP_Cot17 Homo sapiens cDNA clone IMAGE:2573932 3' similar to contains L1.b3 L1 repetitive element;
9486	19503		2.25	2.0E-05	AF275948.1	NT	Homo sapiens ABCA1 (ABCA1) gene, complete cds
9837	19208	25257	1.81	2.0E-05	AU131513.1	EST_HUMAN	AU131513 NT2RP3 Homo sapiens cDNA clone NT2RP3002707 5'
2663	12729	22417	1.61	1.0E-05	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
3599	13513	23301	1.67	1.0E-05	AF088273.1	NT	Drosophila melanogaster strain Lamto 120 Suppressor of Hairless (Su(H)) gene, partial cds
3886	13797	23583	9.24	1.0E-05	P81274	SWISSPROT	MOSAIC PROTEIN LGN
4082	13984	23761	1.09	1.0E-05	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4180	14080	23853	2.01	1.0E-05	AA431119.1	EST_HUMAN	zw09g04.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781494 5'
4742	14627	24413	2.15	1.0E-05	AW419134.1	EST_HUMAN	xy49g11.x1 NCI_CGAP_Lu34.1 Homo sapiens cDNA clone IMAGE:2856548 3'
4882	14763	24539	4.46	1.0E-05	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
6049	15962	26082	1.42	1.0E-05	AJ246003.1	NT	Homo sapiens Spast gene for spastin protein
6211	15993	26128	3.54	1.0E-05	AA641846.1	EST_HUMAN	ns19g02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1184114 3' similar to contains L1.t1 L1 repetitive element;
6213	16079	26228	6.45	1.0E-05	4505844	NT	Homo sapiens phospholipase A2, group X (PLA2G10) mRNA, and translated products
6372	16430		1.8	1.0E-05	P19474	SWISSPROT	52 KD RO PROTEIN (SJOGEN SYNDROME TYPE A ANTIGEN (SS-A)) (RO(SS-A))
7168	17045		2.18	1.0E-05	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
7240	17117	27312	2.48	1.0E-05	AA452578.1	EST_HUMAN	z335h12.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:788519 3' similar to gb102932 PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (HUMAN);
7352	17220	27420	11.8	1.0E-05	AA236110.1	EST_HUMAN	zs05e11.t1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:684332 5' similar to contains Alu repetitive element; contains element TAR1 repetitive element;
7704	17554	27778	1.2	1.0E-05	AW291521.1	EST_HUMAN	UI-H-B12-agk-a-08-0-UI.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724398 3'
7704	17554	27779	1.2	1.0E-05	AW291521.1	EST_HUMAN	UI-H-B12-agk-a-08-0-UI.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724398 3'
7851	17701		1.78	1.0E-05	AW466995.1	EST_HUMAN	ha07c10.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2873010 3' similar to contains L1.12 L1 repetitive element;
8291	18170	28414	2.2	1.0E-05	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
8291	18170	28415	2.2	1.0E-05	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
2637	12504	22398	6.59	9.0E-06	AI583811.1	EST_HUMAN	tt73a06.x1 NCI_CGAP_HSC3 Homo sapiens cDNA clone IMAGE:2246386 3'
3057	12984	22775	3.66	9.0E-06	AI218983.1	EST_HUMAN	qg11b08.x1 Soares_placenta_8to9weeks_2NbHP8to9w Homo sapiens cDNA clone IMAGE:1759191 3'

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3559	13473		2.94	9.0E-06	M61755.1	NT	Human alanine glyoxylate aminotransferase (AGXT) gene, exons 1 and 2
5599	15513	25591	2.58	9.0E-06	L23416.1	NT	Homo sapiens differentiation antigen CD20 gene, exons 5, 6
6570	16428	28611	10.24	9.0E-06	A1034370.1	EST_HUMAN	ox20g01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1656912 3' similar to contains Alu repetitive element;
6931	16809	27004	1.16	9.0E-06	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
7192	17069	27257	2.81	9.0E-06	Q63769	SWISSPROT	SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROTEIN) (DOWN-REGULATED BY V-SRC)
7192	17069	27258	2.81	9.0E-06	Q63769	SWISSPROT	SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROTEIN) (DOWN-REGULATED BY V-SRC)
7317	17193	27394	4.58	9.0E-06	U35114.1	NT	Human apolipoprotein E (APOE) gene, hepatic control region HCR-2
8309	18186	28434	3.35	9.0E-06	Q10364	SWISSPROT	POTATIVE SERINE/THREONINE-PROTEIN KINASE C22E12.14C
2483	12722	22251	1.55	8.0E-06	AW362539.1	EST_HUMAN	RC3-CT0283-201199-011-h11 CT0283 Homo sapiens cDNA
8992	18796	29087	2.24	8.0E-06	Q02357	SWISSPROT	ANKYRIN 1 (ERYTHROCYTE ANKYRIN)
8992	18796	29088	2.24	8.0E-06	Q02357	SWISSPROT	ANKYRIN 1 (ERYTHROCYTE ANKYRIN)
963	10886		1.7	7.0E-06	AA669729.1	EST_HUMAN	ab0010.s1 Stragene lung (#937210) Homo sapiens cDNA clone IMAGE:854251 3' similar to contains MER20.t1 MER20 repetitive element ;
1420	11326	21191	3.19	7.0E-06	7662177	NT	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
2844	12772		6.66	7.0E-06	A168252.1	EST_HUMAN	qw16g09.x1 NC1_CGAP_U13 Homo sapiens cDNA clone IMAGE:1991296 3' similar to contains Alu repetitive element;
3516	13432		0.85	7.0E-06	AA385542.1	EST_HUMAN	EST9205 Thyroid Homo sapiens cDNA 5' end similar to EST containing L1 repeat
5493	15412		5.73	7.0E-06	AW883141.1	EST_HUMAN	QV2-OT0062-250400-173-h01 OT0062 Homo sapiens cDNA
9072	19698	24900	5.39	7.0E-06	BF215972.1	EST_HUMAN	601881522F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4093972 5'
2887	12814	22607	1.09	6.0E-06	BE069189.1	EST_HUMAN	QV3-BT0379-010300-105-d11 BT0379 Homo sapiens cDNA
3635	13549	23336	1.02	6.0E-06	BE069189.1	EST_HUMAN	QV3-BT0379-010300-105-d11 BT0379 Homo sapiens cDNA
4647	12838	22637	1.77	6.0E-06	Q01456	SWISSPROT	OVARIAN ABUNDANT MESSAGE PROTEIN (OAM PROTEIN)
4653	14539	24328	2.01	6.0E-06	A1040099.1	EST_HUMAN	ox08e02.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1655738 3' similar to contains MER8.12 MER8 repetitive element ;
5281	15203	24979	1.46	6.0E-06	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
7670	17520		1.88	6.0E-06	AW801912.1	EST_HUMAN	IL5-JM0070-110400-063-g02 UM0070 Homo sapiens cDNA
9900	19377	25195	1.8	6.0E-06	11418157	NT	Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA
5695	15604	25706	3.58	5.0E-06	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
5825	15731	25843	1.98	5.0E-06	U07561.1	NT	Human ABL gene, exon 1b and intron 1b, and putative M8604 Met protein (M8604 Met) gene, complete cds
7817	17667	27907	6.9	5.0E-06	AA313620.1	EST_HUMAN	EST185496 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end

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Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9795	19311	25204	4.74	5.0E-06	AI065045.1	EST_HUMAN	HA0877 Human fetal liver cDNA library Homo sapiens cDNA
631	10568	20380	4.41	4.0E-06	R16267.1	EST_HUMAN	ya48c03.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:53254 5' similar to contains Alu repetitive element; contains L1 repetitive element ;
828	10755	20605	9.3	4.0E-06	AW103354.1	EST_HUMAN	xc89g12.x1 NCL_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589574 3' similar to contains Alu repetitive element; contains element MER21 repetitive element ;
1312	11218	21074	5.18	4.0E-06	AI334928.1	EST_HUMAN	tf333a09.x1 NCL_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2056168 3'
1312	11218	21075	5.18	4.0E-06	AI334928.1	EST_HUMAN	tf333a09.x1 NCL_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2056168 3'
1458	11363	21227	2.23	4.0E-06	BF365612.1	EST_HUMAN	QV2-NT0046-200600-250-h07 NT0046 Homo sapiens cDNA
2218	12104	22008	1.22	4.0E-06	AW015401.1	EST_HUMAN	UI-H-B10-aat-f-05-Q-U1.s1 NCL_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2710425 3'
3025	12953	22746	1.39	4.0E-06	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
3819	13731	23520	1.78	4.0E-06	AW848295.1	EST_HUMAN	IL3-CT0214-150200-074-B03 CT0214 Homo sapiens cDNA
4702	14588	24378	1.58	4.0E-06	AI886939.1	EST_HUMAN	w194c10.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2432562 3' similar to contains element MER22 repetitive element ;
4840	14721	24504	1.02	4.0E-06	AL1163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
7109	16986	27177	3.1	4.0E-06	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
8746	17895	28139	3.74	4.0E-06	AB007955.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0486
2117	12006	21904	1.27	3.0E-06	AA700562.1	EST_HUMAN	z134b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432663 3' similar to contains L1.11 L1 repetitive element ;
2117	12006	21905	1.27	3.0E-06	AA700562.1	EST_HUMAN	z134b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432663 3' similar to contains L1.11 L1 repetitive element ;
2220	12105		1.37	3.0E-06	AF202635.1	NT	Homo sapiens PP1200 mRNA, complete cds
2891	12818	22610	0.95	3.0E-06	AA868218.1	EST_HUMAN	ak48g11.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409252 3' similar to contains LTR1.13 LTR1 repetitive element ;
3228	13152		2.14	3.0E-06	AB857779.1	EST_HUMAN	w122a05.x1 NCL_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2425616 3' similar to TR:O60734 O60734 LINE-1 LIKE PROTEIN ; contains L1.12 L1 repetitive element ;
3716	13628	23412	1.26	3.0E-06	BE047094.1	EST_HUMAN	hq64d12.x1 NCL_CGAP_HN13 Homo sapiens cDNA clone IMAGE:3124151 3'
3716	13628	23413	1.26	3.0E-06	BE047094.1	EST_HUMAN	hq64d12.x1 NCL_CGAP_HN13 Homo sapiens cDNA clone IMAGE:3124151 3'
4376	14272	24053	0.9	3.0E-06	T50266.1	EST_HUMAN	yb78b10.r1 Stratagene ovary (#937217) Homo sapiens cDNA clone IMAGE:77275 5' similar to contains L1 repetitive element
4461	14355	24146	4.31	3.0E-06	X54816.1	NT	Homo sapiens gene for alpha-1-microglobulin-bikunin, exons 1-5 (encoding alpha-1-microglobulin, N-terminus.)
6290	16154		1.92	3.0E-06	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
9494	19110		4.17	3.0E-06	AW385262.1	EST_HUMAN	RC0-LT0001-261199-011-A03 LT0001 Homo sapiens cDNA
195	10167		3.28	2.0E-06	P54366	SWISSPROT	HOMEOBOX PROTEIN GOOSECOID

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1550	11455		6.27	2.0E-06	P21414	SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] wa04a03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2297068 3' similar to contains MER30.b1
2326	12207	22106	2.95	2.0E-06	A1672138.1	EST_HUMAN	MER30 repetitive element ;
2418	12295	22192	2.14	2.0E-06	P04929	SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
2519	12393	22285	2.69	2.0E-06	P06719	SWISSPROT	KNOB-ASSOCIATED HISTIDINE-RICH PROTEIN PRECURSOR (KAHRP)
3475	13391	23196	1.11	2.0E-06	AV657555.1	EST_HUMAN	AV657555 GLC Homo sapiens cDNA clone GLCFDB05 3'
3700	13614	23398	1.5	2.0E-06	AA173518.1	EST_HUMAN	zp02e05.r1 Stragene ovarian cancer (#937219) Homo sapiens cDNA clone IMAGE:595232 5'
3710	13623	23406	1.5	2.0E-06	AB030896.1	NT	Mus musculus gene for odorant receptor A16, complete cds
5878	15784	26904	5.08	2.0E-06	A1819424.1	EST_HUMAN	wj03b04.x1 NCL_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410063 3'
7136	17013	27206	1.65	2.0E-06	H62051.1	EST_HUMAN	yw37c04.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:235974 5' similar to gb:X74929
9403	19639	24901	1.35	2.0E-06	P23249	SWISSPROT	KERATIN, TYPE II CYTOSKELETAL 8 (HUMAN); PROTEIN MOV-10
9548	19148		2.46	2.0E-06	BE328232.1	EST_HUMAN	hs92f02.x1 NCL_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3144699 3' similar to contains L1.12 L1 repetitive element ;
31	10018	19813	1.9	1.0E-06	Q76082	SWISSPROT	ORGANIC CATION/CARNITINE TRANSPORTER 2 (SOLUTE CARRIER FAMILY 22, MEMBER 5) (HIGH-AFFINITY SODIUM-DEPENDENT CARNITINE COTRANSPORTER)
641	10578	20394	1.61	1.0E-06	AF084394.1	NT	Mus musculus D6MM5E protein (D6Mm5e) mRNA, complete cds
1435	11340	21205	2.22	1.0E-06	P09125	SWISSPROT	MEROZOITE SURFACE PROTEIN CMZ-8
1507	11412	21271	1.09	1.0E-06	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
1554	11459	21317	0.93	1.0E-06	AA034141.1	EST_HUMAN	zi06a12.s1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429982 3' similar to contains Alu repetitive element ;
1554	11459	21317	0.93	1.0E-06	AA034141.1	EST_HUMAN	zi06a12.s1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429982 3' similar to contains Alu repetitive element ;
1554	11459	21318	0.93	1.0E-06	AA034141.1	EST_HUMAN	contains Alu repetitive element ;
1565	11470		1.2	1.0E-06	P27625	SWISSPROT	DNA-DIRECTED RNA POLYMERASE III LARGEST SUBUNIT
1949	11844	21729	4.74	1.0E-06	AF184614.1	NT	Homo sapiens p47-phox (NCF1) gene, complete cds
1949	11844	21730	4.74	1.0E-06	AF184614.1	NT	Homo sapiens p47-phox (NCF1) gene, complete cds
4273	14172	23949	11.11	1.0E-06	U07561.1	NT	Human ABL gene, exon 1b and intron 1b, and putative M8604 Met protein (M8604 Met) gene, complete cds
5043	14915	24688	1.38	1.0E-06	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5043	14915	24689	1.38	1.0E-06	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5233	15157	24925	4.69	1.0E-06	BF333015.1	EST_HUMAN	MR1-BT0800-030700-002-c06 BT0800 Homo sapiens cDNA
6107	16001	26139	6.11	1.0E-06	P02671	SWISSPROT	FIBRINOGEN ALPHA/ALPHA-E CHAIN PRECURSOR
6813	16692	26881	1.16	1.0E-06	A1847010.1	EST_HUMAN	qp54e02.x1 NCL_CGAP_Co8 Homo sapiens cDNA clone IMAGE:1926842 3'